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

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

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

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

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Overview: Request cder_mpl1p_wp081

Request ID: cder_mpl1p_wp081

Request Description: In this report, we describe the concomitant use of drugs that interact with Paxlovid (nirmatrelvir/ritonavir), a co-packaged oral drug product consisting of nirmatrelvir and ritonavir, among patients treated with nirmatrelvir/ritonavir and patients with an outpatient diagnosis of COVID-19. The main purpose is to estimate the proportion of the nirmatrelvir/ritonavir-eligible population (i.e., adults who are at high risk for development of severe COVID-19) or nirmatrelvir/ritonavir users who are taking concomitant medications that have drug-drug interactions (DDI) with nirmatrelvir/ritonavir.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) module, version 12.0.0

Data Source: We distributed this request to six Sentinel Rapid COVID-19 Data Partners on April 3, 2023. The study period included data from December 22, 2021 to December 31, 2022. Please see Appendix A for a list of dates of available data for each Data Partner.

Study Design: We identified two non-mutually exclusive cohorts: 1) individuals with an outpatient diagnosis of COVID-19 and no prior evidence of severe renal or hepatic impairment (COVID-19 patients) and 2) Individuals with use of nirmatrelvir/ritonavir (nirmatrelvir/ritonavir users).

Cohort Entry: For COVID-19 patients, cohort entry was set at the first COVID-19 diagnosis, defined as the first occurrence of the International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis code for COVID-19 in the ambulatory (AV), other ambulatory (OA) or emergency department (ED) care settings. For nirmatrelvir/ritonavir users, cohort entry was the first nirmatrelvir/ritonavir exposure identified using National Drug Codes (NDC) for nirmatrelvir/ritonavir. Cohort re-entry was not allowed. Please see Appendix B for a list of ICD-10-CM codes used to identify COVID-19 diagnosis and Appendix C for a list of generic names and NDCs used to identify nirmatrelvir/ritonavir use.

Cohort Eligibility Criteria: We required members to be continuously enrolled in health plans with medical and drug coverage for at least 183 days prior to their index nirmatrelvir/ritonavir exposure or COVID-19 diagnosis. A gap in enrollment of up to 45 days was allowed and treated as continuous enrollment. The following age groups were defined: 0-11, 12-17, 18-24, 25-34, 35-44, 45-49, 50-64, 65-74, 75-84, and ≥ 85 years.

Inclusion/Exclusion Criteria: For COVID-19 patients, we excluded patients with any ICD-10-CM diagnosis or Healthcare Common Procedure Coding System (HCPCS) codes indicative of severe renal or hepatic impairment in the 183 days prior to the index date. Please see Appendix D for the lists of ICD-10-CM diagnosis and HCPCS codes used to define severe renal and hepatic impairment. There were no inclusion/exclusion criteria for the nirmatrelvir/ritonavir exposure cohort.

Baseline Characteristics: We described the following characteristics on the index date: patient age, year of cohort entry, race, Hispanic origin, and sex. Additionally, we defined the following characteristics to identify subgroups of nirmatrelvir/ritonavir-eligible patients from COVID-19 patients: COVID-19 patients with high-risk comorbidity; COVID-19 patients age > 65 years at Index OR any high-risk comorbidity; and COVID-19 patients age > 55 years at Index OR any high-risk comorbidity. High-risk comorbidities were assessed in the 183 days prior to the index date and included the following conditions: chronic respiratory diseases; reactive airway and lung diseases; asthma; cardiovascular and other vascular diseases; chronic kidney disease; chronic obstructive pulmonary disease; diabetes mellitus; obesity; congenital heart disease; sickle cell disease; hypertension; HIV/AIDS; hematological malignancy; immune deficiencies; dialysis; treatment-independent immune deficiencies; treatment-dependent immune deficiencies AND chemotherapy; treatment-dependent immune deficiencies AND immunosuppressant treatment; solid malignancies AND chemotherapy; solid malignancies AND immunosuppressant treatment; transplant AND chemotherapy; transplant AND immunosuppressant treatment; rheumatological/inflammatory conditions AND chemotherapy; rheumatological/inflammatory conditions AND immunosuppressant treatment; rheumatological/inflammatory conditions AND steroid diagnosis or procedure code. Please see Appendices E and F for the lists of ICD-10-CM diagnosis codes; ICD-10-Procedure Coding System; HCPCS; Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes; and generic names and NDCs used to define the high-risk comorbidities in this request.

Concomitant use of drugs that interact with nirmatrelvir/ritonavir was described overall as well as among individuals 65 and older or with any high-risk comorbidity; and individuals 50 and older or with any high-risk comorbidity.

Concomitant use was defined as having a dispensing record with a days supply that overlaps the index date. For drugs that were identified using procedure codes, concomitant use was defined as having a procedure record within 3 days prior to the index date. Drugs that interact with nirmatrelvir/ritonavir were classified into three categories: **1) drugs contraindicated for use with nirmatrelvir/ritonavir**, including Alfuzosin, Amiodarone, Apalutamide, Carbamazepine, Colchicine, Dihydroergotamine, Dronedarone, Eletriptan, Eplerenone, Ergotamine, Finerenone, Flecainide, Flibanserin, Ivabradine, Lomitapide, Lovastatin, Lumacaftor/Ivacaftor, Lurasidone, Methylergonovine, Naloxegol, Oral Midazolam, Phenobarbital, Phenytoin, Pimozide, Primidone, Propafenone, Quinidine, Ranolazine, Rifampin, Sildenafil (Revati®), Silodosin, Simvastatin, St. John's Wort, Tolvaptan, Triazolam, Ubrogapant, and Voclosporin; **2) drugs to be avoided with nirmatrelvir/ritonavir**, including Aliskiren, Atorvastatin, Avanafil, Bosentan, Clopidogrel, Encorafenib, Everolimus, Glecaprevir/Pibrentasvir, Ibrutinib, Ivosidenib, Neratinib, Rifapentine, Rimegepant, Rivaroxaban, Rosuvastatin, Salmeterol, Sirolimus, Suvorexant, Tadalafil (Adcirca®), Tamsulosin, Ticagrelor, Venetoclax, Vorapaxar, and Voriconazole; and **3) other drug-drug interactors (DDI)**, including Abemaciclib, Amlodipine, Apixaban, Aripiprazole, Atazanavir, Bedaquiline, Betamethasone, Bictegravir/ Emtricitabine/ Tenofovir, Brexpiprazole, Budesonide, Bupropion, Buspirone, Cariprazine, Ceritinib, Ciclesonide, Cilostazol, Clarithromycin, Clonazepam, Clorazepate, Clozapine, Cyclosporine, Dabigatran, Darifenacin, Darunavir, Dasatinib, Dexamethasone, Diazepam, Digoxin, Diltiazem, Disopyramide, Efavirenz, Elbasvir/Grazoprevir, Elexacaftor/Tezacaftor/Ivacaftor, Erythromycin, Estazolam, Ethinyl Estradiol, Felodipine, Fentanyl, Flurazepam, Fluticasone, Hydrocodone, Iloperidone, Isavuconazonium Sulfate, Itraconazole, Ivacaftor, Ketoconazole, Lidocaine (Systemic), Lumateperone, Maraviroc, Meperidine, Methadone, Methylprednisolone, Midazolam (Administered Parenterally), Mometasone, Nevirapine, Nicardipine, Nifedipine, Nilotinib, Ombitasvir/Paritaprevir /Ritonavir/Dasabuvir, Oxycodone, Pimavanserin, Quetiapine, Rifabutin, Riociguat, Saxagliptin, Sildenafil, Sofosbuvir/Velpatasvir/ Voxilaprevir, Tacrolimus, Tadalafil, Tezacaftor/Ivacaftor, Tipranavir, Tofacitinib, Trazodone, Triamcinolone, Upadacitinib, Vardenafil, Vinblastine, Vincristine, Warfarin, Zidovudine, and Zolpidem. Please see Appendices E and F for the lists of generic names and NDCs and procedure codes used to identify the abovementioned drugs.

Limitations: Algorithms used to define exposures, inclusion criteria, and baseline characteristics rely on completeness of recording of the relevant diagnosis, procedures, and drug codes on claims; thus, misclassification is possible. Additionally, data completeness varies by data source and claims type (i.e., care setting); we expect inpatient claims may not be complete for ≥ 60 days (i.e., ≥ 60 days for the two participating national health plans, ≥ 30 days for the two participating integrated delivery systems). Therefore, estimates utilizing inpatient claims (e.g., covariates, or events) may be underestimated. Other claim types may also be incomplete, and data should be interpreted with these limitations in mind. Additionally, healthcare utilization data should be interpreted with caution, as patterns of use may differ during the pandemic. Lastly, having drugs available based on dispensing records does not mean patients indeed took those drugs, the analyses could over-estimate the actual frequency of concomitant drug use among nirmatrelvir/ritonavir users. Our data also are unable to capture if provider offer the appropriate risk mitigation approaches, when prescribed nirmatrelvir/ritonavir to the patients who were on nirmatrelvir/ritonavir DDI drugs (e.g. temporary withheld or adjust to lower dose for the DDI drugs).

Notes: Please contact the Sentinel Operations Center (info@sentinel-system.org) for questions and to provide comments/suggestions for future enhancements to this document. For more information on Sentinel's routine querying modules, please refer to the documentation (<https://dev.sentinel-system.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

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

Amount Supplied - number of units (pills, tablets, vials) dispensed. Net amount per NDC per dispensing.

Blackout Period - number of days at the beginning of a treatment episode that events are to be ignored. If an event occurs during the blackout period, the episode is excluded.

Care Setting - type of medical encounter or facility where the exposure, event, or condition code was recorded. Possible care settings include: Inpatient Hospital Stay (IP), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA). For laboratory results, possible care settings include: Emergency Department (E), Home (H), Inpatient (I), Outpatient (O), or Unknown or Missing (U). The Care Setting, along with the Principal Diagnosis Indicator (PDX), forms the Care Setting/PDX parameter.

Ambulatory Visit (AV) - includes visits at outpatient clinics, same-day surgeries, urgent care visits, and other same-day ambulatory hospital encounters, but excludes emergency department encounters.

Emergency Department (ED) - includes ED encounters that become inpatient stays (in which case inpatient stays would be a separate encounter). Excludes urgent care visits.

Inpatient Hospital Stay (IP) - includes all inpatient stays, same-day hospital discharges, hospital transfers, and acute hospital care where the discharge is after the admission date.

Non-Acute Institutional Stay (IS) - includes hospice, skilled nursing facility (SNF), rehab center, nursing home, residential, overnight non-hospital dialysis and other non-hospital stays.

Other Ambulatory Visit (OA) - includes other non overnight AV encounters such as hospice visits, home health visits, skilled nursing facility visits, other non-hospital visits, as well as telemedicine, telephone and email consultations.

Charlson/Elixhauser Combined Comorbidity Score - calculated based on comorbidities observed during a requester-defined window around the exposure episode start date (e.g., in the 183 days prior to index).

Code Days - the minimum number of times the diagnosis must be found during the evaluation period in order to fulfill the algorithm to identify the corresponding patient characteristic.

Cohort Definition (drug/exposure) - indicates how the cohort will be defined: 01: Cohort includes only the first valid treatment episode during the query period; 02: Cohort includes all valid treatment episodes during the query period; 03: Cohort includes all valid treatment episodes during the query period until an event occurs.

Computed Start Marketing Date - represents the first observed dispensing date among all valid users within a GROUP (scenario) within each Data Partner site.

Days Supplied - number of days supplied for all dispensings in qualifying treatment episodes.

Eligible Members - number of members eligible for an incident treatment episode (defined by the drug/exposure and event washout periods) with drug and medical coverage during the query period.

Enrollment Gap - number of days allowed between two consecutive enrollment periods without breaking a "continuously enrolled" sequence.

Episodes - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

Episode Gap - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

Event Deduplication - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

Exposure Episode Length - number of days after exposure initiation that is considered "exposed time."

Exposure Extension Period - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

Lookback Period - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

Maximum Episode Duration - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

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

Member-Years - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

Minimum Days Supplied - specifies a minimum number of days in length of the days supplied for the episode to be considered.

Minimum Episode Duration - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

Monitoring Period - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

Principal Diagnosis (PDX) - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital. 'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

Query Period - period in which the modular program looks for exposures and outcomes of interest.

Switch Evaluation Step Value - value used to differentiate evaluation step. Each switch pattern can support up to 2 evaluation steps (0 = switch pattern evaluation start; 1 = first evaluation; 2 = second evaluation).

Switch Gap Inclusion Indicator - indicator for whether gaps in treatment episodes that are included in a switch episode will be counted as part of the switch episode duration.

Switch Pattern Cohort Inclusion Date - indicates which date to use for inclusion into the switch pattern cohort of interest as well as optionally as the index date of the treatment episode initiating the switch pattern. Valid options are the product approval date, product marketing date, other requester defined date, or computed start marketing date.

Switch Pattern Cohort Inclusion Strategy - indicates how the switch pattern cohort inclusion date will be used: 01: used only as a switch cohort entry date. First treatment episode dispensing date is used as index for computing time to first switch; 02: used as switch cohort entry date and as initial switch step index date for computing time to first switch.

Treatment Episode Truncation Indicator - indicates whether the exposure episode will be truncated at the occurrence of a requester-specified code.

Washout Period (drug/exposure) - number of days a user is required to have no evidence of prior exposure (drug dispensing/procedure) and continuous drug and medical coverage prior to an incident treatment episode.

Washout Period (event/outcome) - number of days a user is required to have no evidence of a prior event (procedure/diagnosis) and continuous drug and medical coverage prior to an incident treatment episode.

Years at Risk - number of days supplied plus any episode gaps and exposure extension periods all divided by 365.25.

*all terms may not be used in this report

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Patient Characteristics	Number/Mean	Percent/ Standard Deviation¹
Unique patients	2,313,876	N/A
Demographic Characteristics		
Age (years)	48.0	19.6
Age		
0-11 years	160,348	6.9%
12-17 years	97,147	4.2%
18-24 years	146,607	6.3%
25-34 years	269,427	11.6%
35-44 years	320,099	13.8%
45-49 years	165,818	7.2%
50-64 years	548,056	23.7%
65-74 years	363,512	15.7%
75-84 years	188,295	8.1%
≥ 85 years	54,567	2.4%
Sex		
Female	1,315,833	56.9%
Male	998,043	43.1%
Race ²		
American Indian or Alaska Native	3,411	0.1%
Asian	36,362	1.6%
Black or African American	101,156	4.4%
Multi-racial	29,585	1.3%
Native Hawaiian or Other Pacific Islander	5,499	0.2%
Unknown	1,453,281	62.8%
White	684,582	29.6%
Hispanic origin		
Yes	67,837	2.9%
No	453,433	19.6%
Unknown	1,792,606	77.5%
Year		
2021	241,306	10.4%
2022	2,072,570	89.6%
Health Characteristics		
≥ 65 years	606,374	26.2%
≥ 50 years	1,154,430	49.9%
Any High Risk Comorbidity	1,123,498	48.6%
≥ 65 Years Old at Index or High-risk Comorbidity	1,244,081	53.8%
≥ 50 Years Old at Index or High-risk Comorbidity	1,469,444	63.5%
Concomitant³ Medical Product Use		
Any Drug that Interacts with Nirmatrelvir/Ritonavir	926,106	40.0%
Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	100,424	4.3%
Alfuzosin	3,144	0.1%
Amiodarone	5,872	0.3%
Apalutamide	82	0.0%
Carbamazepine	3,155	0.1%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Colchicine	3,000	0.1%
Dihydroergotamine	67	0.0%
Dronedarone	779	0.0%
Eletriptan	729	0.0%
Eplerenone	733	0.0%
Ergotamine	7	0.0%
Finerenone	24	0.0%
Flecainide	4,113	0.2%
Flibanserin	58	0.0%
Ivabradine	262	0.0%
Lomitapide	0	0.0%
Lovastatin	9,711	0.4%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	1,991	0.1%
Methylergonovine	25	0.0%
Midazolam Oral	0	0.0%
Naloxegol	568	0.0%
Phenobarbital	667	0.0%
Phenytoin	1,868	0.1%
Pimozide	29	0.0%
Primidone	3,357	0.1%
Propafenone	861	0.0%
Quinidine	179	0.0%
Ranolazine	3,504	0.2%
Rifampin	245	0.0%
Sildenafil PAH	816	0.0%
Silodosin	575	0.0%
Simvastatin	55,977	2.4%
St John's Wort	0	0.0%
Tolvaptan	16	0.0%
Triazolam	186	0.0%
Ubrogepant	1,369	0.1%
Voclosporin	5	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	395,605	17.1%
Aliskiren	137	0.0%
Atorvastatin	228,793	9.9%
Avanafil	4	0.0%
Bosentan	13	0.0%
Clopidogrel	37,459	1.6%
Encorafenib	21	0.0%
Everolimus	114	0.0%
Glecaprevir/Pibrentasvir	8	0.0%
Ibrutinib	418	0.0%
Ivosidenib	8	0.0%
Neratinib	17	0.0%
Rifapentine	11	0.0%
Rimegepant	1,881	0.1%
Rivaroxaban	16,194	0.7%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Rosuvastatin	99,549	4.3%
Salmeterol	20,321	0.9%
Sirolimus	210	0.0%
Suvorexant	661	0.0%
Tadalafil (Adcirca)	1,678	0.1%
Tamsulosin	52,729	2.3%
Ticagrelor	3,026	0.1%
Venetoclax	191	0.0%
Vorapaxar	3	0.0%
Voriconazole	87	0.0%
Any Other Drug Drug Interactor	710,272	30.7%
Abemaciclib	126	0.0%
Amlodipine	162,772	7.0%
Apixaban	35,527	1.5%
Aripiprazole	10,717	0.5%
Atazanavir	29	0.0%
Bedaquiline	0	0.0%
Betamethasone	7,133	0.3%
Bictegravir/Emtricitabine/Tenofovir	6,696	0.3%
Brexiprazole	1,127	0.0%
Budesonide	28,285	1.2%
Bupropion	59,832	2.6%
Buspirone	27,067	1.2%
Cariprazine	1,647	0.1%
Ceritinib	0	0.0%
Ciclesonide	2,295	0.1%
Cilostazol	1,531	0.1%
Clarithromycin	1,168	0.1%
Clonazepam	20,300	0.9%
Clorazepate	245	0.0%
Clozapine	412	0.0%
Cyclosporine	4,659	0.2%
Dabigatran	2,175	0.1%
Darifenacin	97	0.0%
Darunavir	397	0.0%
Dasatinib	179	0.0%
Dexamethasone	75,809	3.3%
Diazepam	5,393	0.2%
Digoxin	4,116	0.2%
Diltiazem	20,761	0.9%
Disopyramide	38	0.0%
Efavirenz	114	0.0%
Elbasvir/Grazoprevir	0	0.0%
Elexacaftor/Tezacaftor/Ivacaftor	163	0.0%
Erythromycin	1,777	0.1%
Estazolam	24	0.0%
Ethinyl Estradiol	80,927	3.5%
Felodipine	821	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Fentanyl	4,624	0.2%
Flurazepam	13	0.0%
Fluticasone	117,510	5.1%
Hydrocodone	33,206	1.4%
Iloperidone	38	0.0%
Isavuconazonium Sulfate	48	0.0%
Itraconazole	129	0.0%
Ivacaftor	11	0.0%
Ketoconazole	7,230	0.3%
Lidocaine Systemic	12,660	0.5%
Lumateperone	118	0.0%
Maraviroc	30	0.0%
Meperidine	104	0.0%
Methadone	1,220	0.1%
Methylprednisolone	64,272	2.8%
Midazolam Administered Parenterally	1,975	0.1%
Mometasone	4,569	0.2%
Nevirapine	32	0.0%
Nicardipine	27	0.0%
Nifedipine	7,751	0.3%
Nilotinib	48	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	115	0.0%
Oxycodone	21,999	1.0%
Pimavanserin	134	0.0%
Quetiapine	17,064	0.7%
Rifabutin	28	0.0%
Riociguat	75	0.0%
Saxagliptin	277	0.0%
Sildenafil	3,522	0.2%
Sofosbuvir/Velpatasvir/Voxilaprevir	93	0.0%
Tacrolimus	2,698	0.1%
Tadalafil	2,542	0.1%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	781	0.0%
Trazodone	55,586	2.4%
Triamcinolone	17,054	0.7%
Upadacitinib	664	0.0%
Vardenafil	108	0.0%
Vinblastine	9	0.0%
Vincristine	49	0.0%
Warfarin	13,477	0.6%
Zidovudine	21	0.0%
Zolpidem	23,565	1.0%
Verapamil	7,093	0.3%
Concomitant³ Medical Product Use Among Patients 65 and Older or with a High Risk Condition	1,244,081	100%⁴
Any Drug that Interacts with Nirmatrelvir/Ritonavir	706,105	56.8%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	91,725	7.4%
Alfuzosin	2,806	0.2%
Amiodarone	5,854	0.5%
Apalutamide	81	0.0%
Carbamazepine	2,509	0.2%
Colchicine	2,517	0.2%
Dihydroergotamine	46	0.0%
Dronedarone	770	0.1%
Eletriptan	405	0.0%
Eplerenone	700	0.1%
Ergotamine	5	0.0%
Finerenone	24	0.0%
Flecainide	3,971	0.3%
Flibanserin	27	0.0%
Ivabradine	233	0.0%
Lomitapide	0	0.0%
Lovastatin	9,193	0.7%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	1,323	0.1%
Methylergonovine	6	0.0%
Midazolam Oral	0	0.0%
Naloxegol	532	0.0%
Phenobarbital	510	0.0%
Phenytoin	1,585	0.1%
Pimozide	20	0.0%
Primidone	3,202	0.3%
Propafenone	836	0.1%
Quinidine	163	0.0%
Ranolazine	3,460	0.3%
Rifampin	212	0.0%
Sildenafil PAH	640	0.1%
Silodosin	524	0.0%
Simvastatin	51,871	4.2%
St John's Wort	0	0.0%
Tolvaptan	14	0.0%
Triazolam	152	0.0%
Ubrogepant	886	0.1%
Voclosporin	5	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	358,952	28.9%
Aliskiren	129	0.0%
Atorvastatin	209,524	16.8%
Avanafil	3	0.0%
Bosentan	12	0.0%
Clopidogrel	36,848	3.0%
Encorafenib	21	0.0%
Everolimus	105	0.0%
Glecaprevir/Pibrentasvir	5	0.0%
Ibrutinib	417	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Ivosidenib	8	0.0%
Neratinib	17	0.0%
Rifapentine	5	0.0%
Rimegepant	1,197	0.1%
Rivaroxaban	15,229	1.2%
Rosuvastatin	89,429	7.2%
Salmeterol	17,492	1.4%
Sirolimus	192	0.0%
Suvorexant	557	0.0%
Tadalafil (Adcirca)	1,309	0.1%
Tamsulosin	49,460	4.0%
Ticagrelor	2,952	0.2%
Venetoclax	191	0.0%
Vorapaxar	3	0.0%
Voriconazole	84	0.0%
Any Other Drug Drug Interactor	518,145	41.6%
Abemaciclib	126	0.0%
Amlodipine	153,176	12.3%
Apixaban	34,781	2.8%
Aripiprazole	7,750	0.6%
Atazanavir	27	0.0%
Bedaquiline	0	0.0%
Betamethasone	5,354	0.4%
Bictegravir/Emtricitabine/Tenofovir	4,304	0.3%
Brexiprazole	816	0.1%
Budesonide	24,144	1.9%
Bupropion	39,607	3.2%
Buspirone	20,589	1.7%
Cariprazine	1,200	0.1%
Ceritinib	0	0.0%
Ciclesonide	1,780	0.1%
Cilostazol	1,516	0.1%
Clarithromycin	783	0.1%
Clonazepam	15,400	1.2%
Clorazepate	212	0.0%
Clozapine	303	0.0%
Cyclosporine	3,980	0.3%
Dabigatran	2,093	0.2%
Darifenacin	84	0.0%
Darunavir	379	0.0%
Dasatinib	173	0.0%
Dexamethasone	51,182	4.1%
Diazepam	4,317	0.3%
Digoxin	4,082	0.3%
Diltiazem	20,071	1.6%
Disopyramide	37	0.0%
Efavirenz	110	0.0%
Elbasvir/Grazoprevir	0	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Elexacaftor/Tezacaftor/Ivacaftor	148	0.0%
Erythromycin	1,108	0.1%
Estazolam	17	0.0%
Ethinyl Estradiol	22,385	1.8%
Felodipine	790	0.1%
Fentanyl	3,601	0.3%
Flurazepam	8	0.0%
Fluticasone	94,168	7.6%
Hydrocodone	28,871	2.3%
Iloperidone	30	0.0%
Isavuconazonium Sulfate	47	0.0%
Itraconazole	95	0.0%
Ivacaftor	9	0.0%
Ketoconazole	4,912	0.4%
Lidocaine Systemic	7,041	0.6%
Lumateperone	90	0.0%
Maraviroc	28	0.0%
Meperidine	72	0.0%
Methadone	990	0.1%
Methylprednisolone	42,500	3.4%
Midazolam Administered Parenterally	1,372	0.1%
Mometasone	3,370	0.3%
Nevirapine	30	0.0%
Nicardipine	23	0.0%
Nifedipine	7,276	0.6%
Nilotinib	48	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	106	0.0%
Oxycodone	19,637	1.6%
Pimavanserin	126	0.0%
Quetiapine	13,711	1.1%
Rifabutin	22	0.0%
Riociguat	73	0.0%
Saxagliptin	272	0.0%
Sildenafil	2,797	0.2%
Sofosbuvir/Velpatasvir/Voxilaprevir	75	0.0%
Tacrolimus	2,306	0.2%
Tadalafil	1,915	0.2%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	750	0.1%
Trazodone	44,990	3.6%
Triamcinolone	12,284	1.0%
Upadacitinib	654	0.1%
Vardenafil	88	0.0%
Vinblastine	9	0.0%
Vincristine	49	0.0%
Warfarin	12,930	1.0%
Zidovudine	21	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Zolpidem	18,913	1.5%
Verapamil	6,471	0.5%
Concomitant³ Medical Product Use Among Patients 50 and Older or with a High Risk Condition	1,469,444	100%⁴
Any Drug that Interacts with Nirmatrelvir/Ritonavir	775,661	52.8%
Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	97,348	6.6%
Alfuzosin	3,085	0.2%
Amiodarone	5,869	0.4%
Apalutamide	82	0.0%
Carbamazepine	2,806	0.2%
Colchicine	2,736	0.2%
Dihydroergotamine	52	0.0%
Dronedarone	778	0.1%
Eletriptan	526	0.0%
Eplerenone	719	0.0%
Ergotamine	5	0.0%
Finerenone	24	0.0%
Flecainide	4,064	0.3%
Flibanserin	36	0.0%
Ivabradine	235	0.0%
Lomitapide	0	0.0%
Lovastatin	9,614	0.7%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	1,454	0.1%
Methylergonovine	6	0.0%
Midazolam Oral	0	0.0%
Naloxegol	552	0.0%
Phenobarbital	605	0.0%
Phenytoin	1,775	0.1%
Pimozide	23	0.0%
Primidone	3,324	0.2%
Propafenone	855	0.1%
Quinidine	175	0.0%
Ranolazine	3,498	0.2%
Rifampin	220	0.0%
Sildenafil PAH	734	0.0%
Silodosin	569	0.0%
Simvastatin	55,221	3.8%
St John's Wort	0	0.0%
Tolvaptan	15	0.0%
Triazolam	171	0.0%
Ubrogepant	1,014	0.1%
Voclosporin	5	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	384,535	26.2%
Aliskiren	137	0.0%
Atorvastatin	223,825	15.2%
Avanafil	4	0.0%
Bosentan	12	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Clotidogrel	37,362	2.5%
Encorafenib	21	0.0%
Everolimus	108	0.0%
Glecaprevir/Pibrentasvir	8	0.0%
Ibrutinib	418	0.0%
Ivosidenib	8	0.0%
Neratinib	17	0.0%
Rifapentine	6	0.0%
Rimegepant	1,370	0.1%
Rivaroxaban	15,821	1.1%
Rosuvastatin	96,716	6.6%
Salmeterol	18,699	1.3%
Sirolimus	197	0.0%
Suvorexant	609	0.0%
Tadalafil (Adcirca)	1,552	0.1%
Tamsulosin	52,070	3.5%
Ticagrelor	3,009	0.2%
Venetoclax	191	0.0%
Vorapaxar	3	0.0%
Voriconazole	84	0.0%
Any Other Drug Drug Interactor	567,864	38.6%
Abemaciclib	126	0.0%
Amlodipine	159,739	10.9%
Apixaban	35,231	2.4%
Aripiprazole	8,336	0.6%
Atazanavir	28	0.0%
Bedaquiline	0	0.0%
Betamethasone	5,950	0.4%
Bictegravir/Emtricitabine/Tenofovir	4,746	0.3%
Brexiprazole	906	0.1%
Budesonide	25,582	1.7%
Bupropion	45,819	3.1%
Buspirone	22,073	1.5%
Cariprazine	1,278	0.1%
Ceritinib	0	0.0%
Ciclesonide	1,965	0.1%
Cilostazol	1,526	0.1%
Clarithromycin	915	0.1%
Clonazepam	17,225	1.2%
Clorazepate	223	0.0%
Clozapine	335	0.0%
Cyclosporine	4,429	0.3%
Dabigatran	2,144	0.1%
Darifenacin	93	0.0%
Darunavir	386	0.0%
Dasatinib	177	0.0%
Dexamethasone	57,866	3.9%
Diazepam	4,778	0.3%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Digoxin	4,101	0.3%
Diltiazem	20,541	1.4%
Disopyramide	37	0.0%
Efavirenz	113	0.0%
Elbasvir/Grazoprevir	0	0.0%
Elexacaftor/Tezacaftor/Ivacaftor	149	0.0%
Erythromycin	1,238	0.1%
Estazolam	22	0.0%
Ethinyl Estradiol	24,137	1.6%
Felodipine	816	0.1%
Fentanyl	3,892	0.3%
Flurazepam	13	0.0%
Fluticasone	101,698	6.9%
Hydrocodone	31,019	2.1%
Iloperidone	33	0.0%
Isavuconazonium Sulfate	47	0.0%
Itraconazole	106	0.0%
Ivacaftor	9	0.0%
Ketoconazole	5,392	0.4%
Lidocaine Systemic	8,403	0.6%
Lumateperone	98	0.0%
Maraviroc	28	0.0%
Meperidine	74	0.0%
Methadone	1,076	0.1%
Methylprednisolone	49,606	3.4%
Midazolam Administered Parenterally	1,498	0.1%
Mometasone	3,763	0.3%
Nevirapine	31	0.0%
Nicardipine	25	0.0%
Nifedipine	7,486	0.5%
Nilotinib	48	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	112	0.0%
Oxycodone	20,883	1.4%
Pimavanserin	133	0.0%
Quetiapine	14,705	1.0%
Rifabutin	23	0.0%
Riociguat	75	0.0%
Saxagliptin	276	0.0%
Sildenafil	3,252	0.2%
Sofosbuvir/Velpatasvir/Voxilaprevir	80	0.0%
Tacrolimus	2,400	0.2%
Tadalafil	2,343	0.2%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	761	0.1%
Trazodone	49,435	3.4%
Triamcinolone	13,573	0.9%
Upadacitinib	656	0.0%

**Table 1a. Aggregated Characteristics of Patients with COVID-19 in the Rapid Sentinel Distributed Database (SDD)
from December 22, 2021 to December 31, 2022**

Vardenafil	102	0.0%
Vinblastine	9	0.0%
Vincristine	49	0.0%
Warfarin	13,266	0.9%
Zidovudine	21	0.0%
Zolpidem	21,484	1.5%
Verapamil	6,775	0.5%

¹Value represents standard deviation where no % follows the value.

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Concomitant drug use is defined as either i.) a dispensing record with a days supply that overlaps the index date or ii). a procedure in the three days prior through the index date.

⁴Percentages are calculated out of total number of patients meeting the age or high-risk requirement.

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Patient Characteristics	Number/Mean	Percent/ Standard Deviation¹
Unique patients	556,205	N/A
Demographic Characteristics		
Age (years)	60.6	14.3
Age		
0-11 years	13	0.0%
12-17 years	3,281	0.6%
18-24 years	10,920	2.0%
25-34 years	30,763	5.5%
35-44 years	57,163	10.3%
45-49 years	36,972	6.6%
50-64 years	167,342	30.1%
65-74 years	144,060	25.9%
75-84 years	82,798	14.9%
≥ 85 years	22,893	4.1%
Sex		
Female	320,942	57.7%
Male	235,263	42.3%
Race ²		
American Indian or Alaska Native	865	0.2%
Asian	10,818	1.9%
Black or African American	24,267	4.4%
Multi-racial	5,647	1.0%
Native Hawaiian or Other Pacific Islander	3,047	0.5%
Unknown	283,917	51.0%
White	227,644	40.9%
Hispanic origin		
Yes	13,403	2.4%
No	180,904	32.5%
Unknown	361,898	65.1%
Year		
2021	23	0.0%
2022	556,182	100.0%
Health Characteristics		
≥ 65 years	249,751	44.9%
≥ 50 years	417,093	75.0%
Any High Risk Comorbidity	361,410	65.0%
≥ 65 Years Old at Index or High-risk Comorbidity	410,580	73.8%
≥ 50 Years Old at Index or High-risk Comorbidity	474,886	85.4%
Concomitant³ Medical Product Use		
Any Drug that Interacts with Nirmatrelvir/Ritonavir	313,585	56.4%
Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	38,484	6.9%
Alfuzosin	1,492	0.3%
Amiodarone	1,103	0.2%
Apalutamide	36	0.0%
Carbamazepine	514	0.1%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Colchicine	985	0.2%
Dihydroergotamine	21	0.0%
Dronedarone	153	0.0%
Eletriptan	226	0.0%
Eplerenone	291	0.1%
Ergotamine	3	0.0%
Finerenone	49	0.0%
Flecainide	735	0.1%
Flibanserin	17	0.0%
Ivabradine	53	0.0%
Lomitapide	0	0.0%
Lovastatin	4,192	0.8%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	282	0.1%
Methylergonovine	0	0.0%
Midazolam Oral	0	0.0%
Naloxegol	201	0.0%
Phenobarbital	66	0.0%
Phenytoin	229	0.0%
Pimozide	2	0.0%
Primidone	1,102	0.2%
Propafenone	127	0.0%
Quinidine	50	0.0%
Ranolazine	961	0.2%
Rifampin	62	0.0%
Sildenafil PAH	337	0.1%
Silodosin	299	0.1%
Simvastatin	25,323	4.6%
St John's Wort	0	0.0%
Tolvaptan	13	0.0%
Triazolam	95	0.0%
Ubrogepant	398	0.1%
Voclosporin	4	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	169,690	30.5%
Aliskiren	49	0.0%
Atorvastatin	99,260	17.8%
Avanafil	3	0.0%
Bosentan	8	0.0%
Clopidogrel	13,317	2.4%
Encorafenib	8	0.0%
Everolimus	28	0.0%
Glecaprevir/Pibrentasvir	4	0.0%
Ibrutinib	138	0.0%
Ivosidenib	5	0.0%
Neratinib	2	0.0%
Rifapentine	3	0.0%
Rimegepant	652	0.1%
Rivaroxaban	3,300	0.6%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Rosuvastatin	47,381	8.5%
Salmeterol	7,169	1.3%
Sirolimus	58	0.0%
Suvorexant	279	0.1%
Tadalafil (Adcirca)	627	0.1%
Tamsulosin	23,385	4.2%
Ticagrelor	639	0.1%
Venetoclax	66	0.0%
Vorapaxar	1	0.0%
Voriconazole	23	0.0%
Any Other Drug Drug Interactor	214,391	38.5%
Abemaciclib	71	0.0%
Amlodipine	68094	12.2%
Apixaban	9570	1.7%
Aripiprazole	2729	0.5%
Atazanavir	13	0.0%
Bedaquiline	1	0.0%
Betamethasone	2180	0.4%
Bictegravir/Emtricitabine/Tenofovir	2332	0.4%
Brexipiprazole	330	0.1%
Budesonide	8280	1.5%
Bupropion	20847	3.7%
Buspirone	7890	1.4%
Cariprazine	320	0.1%
Ceritinib	0	0.0%
Ciclesonide	871	0.2%
Cilostazol	592	0.1%
Clarithromycin	253	0.0%
Clonazepam	6720	1.2%
Clorazepate	89	0.0%
Clozapine	57	0.0%
Cyclosporine	2192	0.4%
Dabigatran	700	0.1%
Darifenacin	39	0.0%
Darunavir	153	0.0%
Dasatinib	52	0.0%
Dexamethasone	11093	2.0%
Diazepam	1806	0.3%
Digoxin	1067	0.2%
Diltiazem	7262	1.3%
Disopyramide	9	0.0%
Efavirenz	34	0.0%
Elbasvir/Grazoprevir	0	0.0%
Elexacaftor/Tezacaftor/Ivacaftor	95	0.0%
Erythromycin	517	0.1%
Estazolam	13	0.0%
Ethinyl Estradiol	11814	2.1%
Felodipine	456	0.1%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Fentanyl	657	0.1%
Flurazepam	5	0.0%
Fluticasone	36902	6.6%
Hydrocodone	10398	1.9%
Iloperidone	4	0.0%
Isavuconazonium Sulfate	16	0.0%
Itraconazole	42	0.0%
Ivacaftor	4	0.0%
Ketoconazole	2664	0.5%
Lidocaine Systemic	3280	0.6%
Lumateperone	27	0.0%
Maraviroc	19	0.0%
Meperidine	9	0.0%
Methadone	335	0.1%
Methylprednisolone	11126	2.0%
Midazolam Administered Parenterally	217	0.0%
Mometasone	1568	0.3%
Nevirapine	18	0.0%
Nicardipine	5	0.0%
Nifedipine	3089	0.6%
Nilotinib	16	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	47	0.0%
Oxycodone	6518	1.2%
Pimavanserin	37	0.0%
Quetiapine	3963	0.7%
Rifabutin	6	0.0%
Riociguat	26	0.0%
Saxagliptin	133	0.0%
Sildenafil	1488	0.3%
Sofosbuvir/Velpatasvir/Voxilaprevir	19	0.0%
Tacrolimus	730	0.1%
Tadalafil	1265	0.2%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	298	0.1%
Trazodone	19992	3.6%
Triamcinolone	5347	1.0%
Upadacitinib	280	0.1%
Vardenafil	51	0.0%
Vinblastine	2	0.0%
Vincristine	2	0.0%
Warfarin	4723	0.8%
Zidovudine	8	0.0%
Zolpidem	10151	1.8%
Verapamil	2784	0.5%
Concomitant³ Medical Product Use Among Patients 65 and Older or with a High Risk Condition	410,580	100%⁴
Any Drug that Interacts with Nirmatrelvir/Ritonavir	271,569	66.1%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	36,198	8.8%
Alfuzosin	1,355	0.3%
Amiodarone	1,101	0.3%
Apalutamide	36	0.0%
Carbamazepine	440	0.1%
Colchicine	877	0.2%
Dihydroergotamine	16	0.0%
Dronedarone	150	0.0%
Eletriptan	141	0.0%
Eplerenone	280	0.1%
Ergotamine	3	0.0%
Finerenone	49	0.0%
Flecainide	715	0.2%
Flibanserin	11	0.0%
Ivabradine	47	0.0%
Lomitapide	0	0.0%
Lovastatin	4,025	1.0%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	232	0.1%
Methylergonovine	0	0.0%
Midazolam Oral	0	0.0%
Naloxegol	191	0.0%
Phenobarbital	57	0.0%
Phenytoin	199	0.0%
Pimozide	1	0.0%
Primidone	1,081	0.3%
Propafenone	124	0.0%
Quinidine	46	0.0%
Ranolazine	953	0.2%
Rifampin	57	0.0%
Sildenafil PAH	282	0.1%
Sildenafil	275	0.1%
Simvastatin	23,991	5.8%
St John's Wort	0	0.0%
Tolvaptan	12	0.0%
Triazolam	75	0.0%
Ubrogepant	277	0.1%
Voclosporin	4	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	157,318	38.3%
Aliskiren	47	0.0%
Atorvastatin	92,671	22.6%
Avanafil	2	0.0%
Bosentan	7	0.0%
Clopidogrel	13,173	3.2%
Encorafenib	8	0.0%
Everolimus	25	0.0%
Glecaprevir/Pibrentasvir	3	0.0%
Ibrutinib	137	0.0%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Ivosidenib	5	0.0%
Neratinib	2	0.0%
Rifapentine	2	0.0%
Rimegepant	468	0.1%
Rivaroxaban	3,180	0.8%
Rosuvastatin	43,428	10.6%
Salmeterol	6,388	1.6%
Sirolimus	52	0.0%
Suvorexant	245	0.1%
Tadalafil (Addcirca)	527	0.1%
Tamsulosin	22,405	5.5%
Ticagrelor	627	0.2%
Venetoclax	66	0.0%
Vorapaxar	1	0.0%
Voriconazole	22	0.0%
Any Other Drug Drug Interactor	181,905	44.3%
Abemaciclib	71	0.0%
Amlodipine	65,058	15.8%
Apixaban	9,447	2.3%
Aripiprazole	2,241	0.5%
Atazanavir	12	0.0%
Bedaquiline	1	0.0%
Betamethasone	1,879	0.5%
Bictegravir/Emtricitabine/Tenofovir	1,661	0.4%
Brexiprazole	262	0.1%
Budesonide	7,470	1.8%
Bupropion	15,547	3.8%
Buspirone	6,628	1.6%
Cariprazine	247	0.1%
Ceritinib	0	0.0%
Ciclesonide	758	0.2%
Cilostazol	592	0.1%
Clarithromycin	198	0.0%
Clonazepam	5,508	1.3%
Clorazepate	80	0.0%
Clozapine	50	0.0%
Cyclosporine	1,966	0.5%
Dabigatran	686	0.2%
Darifenacin	33	0.0%
Darunavir	150	0.0%
Dasatinib	50	0.0%
Dexamethasone	8,906	2.2%
Diazepam	1,518	0.4%
Digoxin	1,063	0.3%
Diltiazem	7,076	1.7%
Disopyramide	7	0.0%
Efavirenz	32	0.0%
Elbasvir/Grazoprevir	0	0.0%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Elexacaftor/Tezacaftor/Ivacaftor	84	0.0%
Erythromycin	426	0.1%
Estazolam	10	0.0%
Ethinyl Estradiol	4,693	1.1%
Felodipine	440	0.1%
Fentanyl	597	0.1%
Flurazepam	4	0.0%
Fluticasone	32,972	8.0%
Hydrocodone	9,513	2.3%
Iloperidone	4	0.0%
Isavuconazonium Sulfate	16	0.0%
Itraconazole	34	0.0%
Ivacaftor	4	0.0%
Ketoconazole	2,162	0.5%
Lidocaine Systemic	2,396	0.6%
Lumateperone	21	0.0%
Maraviroc	16	0.0%
Meperidine	8	0.0%
Methadone	291	0.1%
Methylprednisolone	8,966	2.2%
Midazolam Administered Parenterally	195	0.0%
Mometasone	1,286	0.3%
Nevirapine	18	0.0%
Nicardipine	5	0.0%
Nifedipine	2,993	0.7%
Nilotinib	16	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	44	0.0%
Oxycodone	6,039	1.5%
Pimavanserin	37	0.0%
Quetiapine	3,475	0.8%
Rifabutin	5	0.0%
Riociguat	24	0.0%
Saxagliptin	130	0.0%
Sildenafil	1,304	0.3%
Sofosbuvir/Velpatasvir/Voxilaprevir	13	0.0%
Tacrolimus	647	0.2%
Tadalafil	1,044	0.3%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	283	0.1%
Trazodone	17,288	4.2%
Triamcinolone	4,551	1.1%
Upadacitinib	273	0.1%
Vardenafil	41	0.0%
Vinblastine	2	0.0%
Vincristine	2	0.0%
Warfarin	4,583	1.1%
Zidovudine	8	0.0%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Zolpidem	8,511	2.1%
Verapamil	2,583	0.6%
Concomitant³ Medical Product Use Among Patients 50 and Older or with a High Risk Condition	474,886	100%⁴
Any Drug that Interacts with Nirmatrelvir/Ritonavir	293,023	61.7%
Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	37,973	8.0%
Alfuzosin	1,479	0.3%
Amiodarone	1,102	0.2%
Apalutamide	36	0.0%
Carbamazepine	479	0.1%
Colchicine	944	0.2%
Dihydroergotamine	17	0.0%
Dronedarone	152	0.0%
Eletriptan	185	0.0%
Eplerenone	288	0.1%
Ergotamine	3	0.0%
Finerenone	49	0.0%
Flecainide	730	0.2%
Flibanserin	11	0.0%
Ivabradine	48	0.0%
Lomitapide	0	0.0%
Lovastatin	4,166	0.9%
Lumacaftor/Ivacaftor	1	0.0%
Lurasidone	246	0.1%
Methylergonovine	0	0.0%
Midazolam Oral	0	0.0%
Naloxegol	197	0.0%
Phenobarbital	65	0.0%
Phenytoin	225	0.0%
Pimozide	2	0.0%
Primidone	1,100	0.2%
Propafenone	124	0.0%
Quinidine	49	0.0%
Ranolazine	960	0.2%
Rifampin	58	0.0%
Sildenafil PAH	314	0.1%
Silodosin	298	0.1%
Simvastatin	25,144	5.3%
St John's Wort	0	0.0%
Tolvaptan	12	0.0%
Triazolam	88	0.0%
Ubrogepant	327	0.1%
Voclosporin	4	0.0%
Any Drugs to be avoided with Nirmatrelvir/Ritonavir	166,911	35.1%
Aliskiren	48	0.0%
Atorvastatin	97,961	20.6%
Avanafil	3	0.0%
Bosentan	7	0.0%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Clotidogrel	13,301	2.8%
Encorafenib	8	0.0%
Everolimus	26	0.0%
Glecaprevir/Pibrentasvir	4	0.0%
Ibrutinib	137	0.0%
Ivosidenib	5	0.0%
Neratinib	2	0.0%
Rifapentine	2	0.0%
Rimegepant	543	0.1%
Rivaroxaban	3,264	0.7%
Rosuvastatin	46,565	9.8%
Salmeterol	6,776	1.4%
Sirolimus	55	0.0%
Suvorexant	264	0.1%
Tadalafil (Addcirca)	604	0.1%
Tamsulosin	23,268	4.9%
Ticagrelor	635	0.1%
Venetoclax	66	0.0%
Vorapaxar	1	0.0%
Voriconazole	22	0.0%
Any Other Drug Drug Interactor	195,762	41.2%
Abemaciclib	71	0.0%
Amlodipine	67,353	14.2%
Apixaban	9,528	2.0%
Aripiprazole	2,421	0.5%
Atazanavir	13	0.0%
Bedaquiline	1	0.0%
Betamethasone	2,037	0.4%
Bictegravir/Emtricitabine/Tenofovir	1,851	0.4%
Brexiprazole	291	0.1%
Budesonide	7,829	1.6%
Bupropion	17,876	3.8%
Buspirone	7,080	1.5%
Cariprazine	270	0.1%
Ceritinib	0	0.0%
Ciclesonide	815	0.2%
Cilostazol	592	0.1%
Clarithromycin	223	0.0%
Clonazepam	6,135	1.3%
Clorazepate	86	0.0%
Clozapine	55	0.0%
Cyclosporine	2,138	0.5%
Dabigatran	697	0.1%
Darifenacin	38	0.0%
Darunavir	152	0.0%
Dasatinib	51	0.0%
Dexamethasone	9,837	2.1%
Diazepam	1,692	0.4%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Digoxin	1,067	0.2%
Diltiazem	7,215	1.5%
Disopyramide	8	0.0%
Efavirenz	33	0.0%
Elbasvir/Grazoprevir	0	0.0%
Elexacaftor/Tezacaftor/Ivacaftor	85	0.0%
Erythromycin	460	0.1%
Estazolam	12	0.0%
Ethinyl Estradiol	5,229	1.1%
Felodipine	453	0.1%
Fentanyl	632	0.1%
Flurazepam	5	0.0%
Fluticasone	34,848	7.3%
Hydrocodone	10,098	2.1%
Iloperidone	4	0.0%
Isavuconazonium Sulfate	16	0.0%
Itraconazole	37	0.0%
Ivacaftor	4	0.0%
Ketoconazole	2,363	0.5%
Lidocaine Systemic	2,699	0.6%
Lumateperone	22	0.0%
Maraviroc	19	0.0%
Meperidine	8	0.0%
Methadone	317	0.1%
Methylprednisolone	9,911	2.1%
Midazolam Administered Parenterally	208	0.0%
Mometasone	1,433	0.3%
Nevirapine	18	0.0%
Nicardipine	5	0.0%
Nifedipine	3,050	0.6%
Nilotinib	16	0.0%
Ombitasvir/Paritaprevir/Ritonavir/Dasabuvir	47	0.0%
Oxycodone	6,362	1.3%
Pimavanserin	37	0.0%
Quetiapine	3,693	0.8%
Rifabutin	5	0.0%
Riociguat	25	0.0%
Saxagliptin	133	0.0%
Sildenafil	1,437	0.3%
Sofosbuvir/Velpatasvir/Voxilaprevir	18	0.0%
Tacrolimus	683	0.1%
Tadalafil	1,207	0.3%
Tezacaftor/Ivacaftor	0	0.0%
Tipranavir	1	0.0%
Tofacitinib	288	0.1%
Trazodone	18,763	4.0%
Triamcinolone	4,924	1.0%
Upadacitinib	274	0.1%

Table 1b. Aggregated Characteristics of Patients Exposed to Nirmatrelvir/Ritonavir in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

Vardenafil	50	0.0%
Vinblastine	2	0.0%
Vincristine	2	0.0%
Warfarin	4,684	1.0%
Zidovudine	8	0.0%
Zolpidem	9,607	2.0%
Verapamil	2,707	0.6%

¹Value represents standard deviation where no % follows the value.

²Race data may not be completely populated at all Data Partners; therefore, data about race may be incomplete.

³Concomitant drug use is defined as either i.) a dispensing record with a days supply that overlaps the index date or ii). a procedure in the three days prior through the index date.

⁴Percentages are calculated out of total number of patients meeting the age or high-risk requirement.

Table 2. Summary of Exposures of Interest in the Rapid Sentinel Distributed Database (SDD) from December 22, 2021 to December 31, 2022

	Number of Patients	Number of Index Dates	Number of Eligible Members ¹	Total Eligible Member-Years ¹
<i>Nirmatrelvir/Ritonavir</i>	556,205	556,205	34,581,714	23,987,471.0
<i>COVID-19</i>	2,313,876	2,313,876	33,493,220	21,440,464.3

¹Eligible Members and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (April 3, 2023)

Masked DP ID	DP Start Date	DP End Date ¹
DP01	07/01/2017	11/30/2022
DP02	07/01/2017	12/31/2022
DP03	07/01/2017	10/31/2022
DP04	01/01/2017	09/30/2022
DP05	01/01/2017	09/30/2022
DP06	07/01/2017	11/30/2022

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

Appendix B. List of International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Exposures in this Request

Code	Description	Code Category	Code Type
COVID-19			
U07.1	COVID-19	Diagnosis	ICD-10-CM

Appendix C. List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request

Generic Name	
	Paxlovid
nirmatrelvir/ritonavir	

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
Severe Hepatic Impairment			
C22	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-10-CM
C22.0	Liver cell carcinoma	Diagnosis	ICD-10-CM
C22.8	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
C22.9	Malignant neoplasm of liver, not specified as primary or secondary	Diagnosis	ICD-10-CM
I85	Esophageal varices	Diagnosis	ICD-10-CM
I85.0	Esophageal varices	Diagnosis	ICD-10-CM
I85.00	Esophageal varices without bleeding	Diagnosis	ICD-10-CM
I85.01	Esophageal varices with bleeding	Diagnosis	ICD-10-CM
I85.1	Secondary esophageal varices	Diagnosis	ICD-10-CM
I85.10	Secondary esophageal varices without bleeding	Diagnosis	ICD-10-CM
I85.11	Secondary esophageal varices with bleeding	Diagnosis	ICD-10-CM
I86.4	Gastric varices	Diagnosis	ICD-10-CM
K65.2	Spontaneous bacterial peritonitis	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.4	Alcoholic hepatic failure	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K71.11	Toxic liver disease with hepatic necrosis, with coma	Diagnosis	ICD-10-CM
K71.51	Toxic liver disease with chronic active hepatitis with ascites	Diagnosis	ICD-10-CM
K72.01	Acute and subacute hepatic failure with coma	Diagnosis	ICD-10-CM
K72.1	Chronic hepatic failure	Diagnosis	ICD-10-CM
K72.10	Chronic hepatic failure without coma	Diagnosis	ICD-10-CM
K72.11	Chronic hepatic failure with coma	Diagnosis	ICD-10-CM
K72.9	Hepatic failure, unspecified	Diagnosis	ICD-10-CM
K72.90	Hepatic failure, unspecified without coma	Diagnosis	ICD-10-CM
K72.91	Hepatic failure, unspecified with coma	Diagnosis	ICD-10-CM
K76.6	Portal hypertension	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
K76.81	Hepatopulmonary syndrome	Diagnosis	ICD-10-CM
Severe Renal Impairment			
36145	Introduction of needle or intracatheter; arteriovenous shunt created for dialysis (cannula, fistula, or graft)	Procedure	CPT-4
36147	Introduction of needle and/or catheter, arteriovenous shunt created for dialysis (graft/fistula); initial access with complete radiological evaluation of dialysis access, including fluoroscopy, image documentation and report (includes access of shunt, inj	Procedure	CPT-4
36148	Introduction of needle and/or catheter, arteriovenous shunt created for dialysis (graft/fistula); additional access for therapeutic intervention (List separately in addition to code for primary procedure)	Procedure	CPT-4
36831	Thrombectomy, open, arteriovenous fistula without revision, autogenous or nonautogenous dialysis graft (separate procedure)	Procedure	CPT-4
36832	Revision, open, arteriovenous fistula; without thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	Procedure	CPT-4

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
36833	Revision, open, arteriovenous fistula; with thrombectomy, autogenous or nonautogenous dialysis graft (separate procedure)	Procedure	CPT-4
36838	Distal revascularization and interval ligation (DRIL), upper extremity hemodialysis access (steal syndrome)	Procedure	CPT-4
36901	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis	Procedure	CPT-4
36902	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis	Procedure	CPT-4
36903	Introduction of needle(s) and/or catheter(s), dialysis circuit, with diagnostic angiography of the dialysis circuit, including all direct puncture(s) and catheter placement(s), injection(s) of contrast, all necessary imaging from the arterial anastomosis	Procedure	CPT-4
36904	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s),	Procedure	CPT-4
36905	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s),	Procedure	CPT-4
36906	Percutaneous transluminal mechanical thrombectomy and/or infusion for thrombolysis, dialysis circuit, any method, including all imaging and radiological supervision and interpretation, diagnostic angiography, fluoroscopic guidance, catheter placement(s),	Procedure	CPT-4
36907	Transluminal balloon angioplasty, central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the angioplasty (List separately in addition to code for primary proc	Procedure	CPT-4
36908	Transcatheter placement of intravascular stent(s), central dialysis segment, performed through dialysis circuit, including all imaging and radiological supervision and interpretation required to perform the stenting, and all angioplasty in the central dia	Procedure	CPT-4
36909	Dialysis circuit permanent vascular embolization or occlusion (including main circuit or any accessory veins), endovascular, including all imaging and radiological supervision and interpretation necessary to complete the intervention (List separately in a	Procedure	CPT-4
3E1M39Z	Irrigation of Peritoneal Cavity using Dialysate, Percutaneous Approach	Procedure	ICD-10-PCS
49418	Insertion of tunneled intraperitoneal catheter (eg, dialysis, intraperitoneal chemotherapy instillation, management of ascites), complete procedure, including imaging guidance, catheter placement, contrast injection when performed, and radiological superv	Procedure	CPT-4
49420	Insertion of intraperitoneal cannula or catheter for drainage or dialysis; temporary	Procedure	CPT-4
49421	Insertion of tunneled intraperitoneal catheter for dialysis, open	Procedure	CPT-4
5A1D00Z	Performance of Urinary Filtration, Single (Deprecated)	Procedure	ICD-10-PCS
5A1D60Z	Performance of Urinary Filtration, Multiple (Deprecated)	Procedure	ICD-10-PCS
5A1D70Z	Performance of Urinary Filtration, Intermittent, Less than 6 Hours Per Day	Procedure	ICD-10-PCS
5A1D80Z	Performance of Urinary Filtration, Prolonged Intermittent, 6-18 hours Per Day	Procedure	ICD-10-PCS
5A1D90Z	Performance of Urinary Filtration, Continuous, Greater than 18 hours Per Day	Procedure	ICD-10-PCS
75790	Angiography, arteriovenous shunt (eg, dialysis patient), radiological supervision and interpretation	Procedure	CPT-4

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
75791	Angiography, arteriovenous shunt (eg, dialysis patient fistula/graft), complete evaluation of dialysis access, including fluoroscopy, image documentation and report (includes injections of contrast and all necessary imaging from the arterial anastomosis a	Procedure	CPT-4
90935	Hemodialysis procedure with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90937	Hemodialysis procedure requiring repeated evaluation(s) with or without substantial revision of dialysis prescription	Procedure	CPT-4
90939	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator dilution method, hook-up; transcutaneous measurement and disconnection (Deprecated)	Procedure	CPT-4
90940	Hemodialysis access flow study to determine blood flow in grafts and arteriovenous fistulae by an indicator method	Procedure	CPT-4
90945	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies), with single evaluation by a physician or other qualified health care professional	Procedure	CPT-4
90947	Dialysis procedure other than hemodialysis (eg, peritoneal dialysis, hemofiltration, or other continuous renal replacement therapies) requiring repeated evaluations by a physician or other qualified health care professional, with or without substantial re	Procedure	CPT-4
90963	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients younger than 2 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90964	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 2-11 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90965	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 12-19 years of age to include monitoring for the adequacy of nutrition, assessment of growth and development, and counseling of parents	Procedure	CPT-4
90966	End-stage renal disease (ESRD) related services for home dialysis per full month, for patients 20 years of age and older	Procedure	CPT-4
90967	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients younger than 2 years of age	Procedure	CPT-4
90968	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 2-11 years of age	Procedure	CPT-4
90969	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 12-19 years of age	Procedure	CPT-4
90970	End-stage renal disease (ESRD) related services for dialysis less than a full month of service, per day; for patients 20 years of age and older	Procedure	CPT-4
93990	Duplex scan of hemodialysis access (including arterial inflow, body of access and venous outflow)	Procedure	CPT-4
99512	Home visit for hemodialysis	Procedure	CPT-4
99559	Home infusion of peritoneal dialysis, per diem (Deprecated)	Procedure	CPT-4
C1037	Catheter, dialysis, Vaxcel chronic dialysis catheter	Procedure	HCPCS
C1152	Access system, dialysis, lifesite access system	Procedure	HCPCS
C1750	Catheter, hemodialysis/peritoneal, long-term	Procedure	HCPCS

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
C1881	Dialysis access system (implantable)	Procedure	HCPCS
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
G0257	Unscheduled or emergency dialysis treatment for an esrd patient in a hospital outpatient department that is not certified as an esrd facility	Procedure	HCPCS
G0320	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PATIENTS PER FULL MONTH; FOR PATIENTS UNDER TWO YEARS OF AGE TO INCLUDE MONITORING FOR ADEQUACY OF NUTRITION, ASSESSMENT OF GROWTH AND DEVELOPMENT, AND	Procedure	HCPCS
G0321	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PATIENTS PER FULL MONTH; FOR PATIENTS TWO TO ELEVEN YEARS OF AGE TO INCLUDE MONITORING FOR ADEQUACY OF NUTRITION, ASSESSMENT OF GROWTH AND DEVELOPMENT, AND COUNSELING OF PARENTS	Procedure	HCPCS
G0322	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PATIENTS PER FULL MONTH; FOR PATIENTS TWELVE TO NINETEEN YEARS OF AGE TO INCLUDE MONITORING FOR ADEQUACY OF NUTRITION, ASSESSMENT OF GROWTH AND DEVELOPMENT, AND COUNSELING OF PARENTS	Procedure	HCPCS
G0323	END STAGE RENAL DISEASE (ESRD) RELATED SERVICES FOR HOME DIALYSIS PATIENTS PER FULL MONTH; FOR PATIENTS TWENTY YEARS OF AGE AND OLDER	Procedure	HCPCS
G0392	TRANSLUMINAL BALLOON ANGIOPLASTY, PERCUTANEOUS; FOR MAINTENANCE OF HEMODIALYSIS ACCESS, ARTERIOVENOUS FISTULA OR GRAFT; ARTERIAL	Procedure	HCPCS
G0393	TRANSLUMINAL BALLOON ANGIOPLASTY, PERCUTANEOUS; FOR MAINTENANCE OF HEMODIALYSIS ACCESS, ARTERIOVENOUS FISTULA OR GRAFT; VENOUS	Procedure	HCPCS
G0491	Dialysis procedure at a medicare certified esrd facility for acute kidney injury without esrd	Procedure	HCPCS
G0492	Dialysis procedure with single evaluation by a physician or other qualified health care professional for acute kidney injury without esrd	Procedure	HCPCS
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.1	Hypertensive heart and chronic kidney disease without heart failure	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code Category	Code Type
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
J0604	Cinacalcet, oral, 1 mg, (for esrd on dialysis)	Procedure	HCPCS
J0882	Injection, darbepoetin alfa, 1 microgram (for esrd on dialysis)	Procedure	HCPCS
J0884	Injection, argatroban, 1 mg (for esrd on dialysis)	Procedure	HCPCS
J0886	Injection, epoetin alfa, 1000 units (for esrd on dialysis)	Procedure	HCPCS
J0887	Injection, epoetin beta, 1 microgram, (for esrd on dialysis)	Procedure	HCPCS
J0890	Injection, peginesatide, 0.1 mg (for esrd on dialysis)	Procedure	HCPCS
J3591	Unclassified drug or biological used for esrd on dialysis	Procedure	HCPCS
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N11.8	Other chronic tubulo-interstitial nephritis	Diagnosis	ICD-10-CM
N11.9	Chronic tubulo-interstitial nephritis, unspecified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N25.0	Renal osteodystrophy	Diagnosis	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
O10.2	Pre-existing hypertensive chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10.21	Pre-existing hypertensive chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O10.211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10.212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10.213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10.219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.23	Pre-existing hypertensive chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
O10.3	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10.31	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O10.311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10.312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10.313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10.319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.33	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
Q0139	Injection, ferumoxytol, for treatment of iron deficiency anemia, 1 mg (for esrd on dialysis)	Procedure	HCPCS
Q2047	Injection, peginesatide, 0.1 mg (for esrd on dialysis)	Procedure	HCPCS
Q4081	Injection, epoetin alfa, 100 units (for esrd on dialysis)	Procedure	HCPCS
Q5105	Injection, epoetin alfa-epbx, biosimilar, (retacrit) (for esrd on dialysis), 100 units	Procedure	HCPCS
Q9972	Injection, epoetin beta, 1 microgram, (for esrd on dialysis)	Procedure	HCPCS
S9335	Home therapy, hemodialysis; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing services coded separately), per diem	Procedure	HCPCS

Appendix D. List of Current Procedural Terminology, Fourth Edition (CPT-4), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Exclusion Criteria in this Request

Code	Description	Code	
		Category	Code Type
S9339	Home therapy; peritoneal dialysis, administrative services, professional pharmacy services, care coordination and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	Diagnosis	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	Diagnosis	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	Diagnosis	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	Diagnosis	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	Diagnosis	ICD-10-CM
Z99.2	Dependence on renal dialysis	Diagnosis	ICD-10-CM

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
Drugs Contraindicated for Use with Nirmatrelvir/Ritonavir	
St. John's wort	St. John's wort
alfuzosin HCl	Uroxatral
alfuzosin HCl	alfuzosin
amiodarone HCl	Pacerone
amiodarone HCl	amiodarone
amiodarone HCl/dextrose 5 % in water	amiodarone in dextrose 5 %
amiodarone in dextrose, iso-osmotic	Nexterone
apalutamide	Erleada
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol
carbamazepine	Tegretol XR
carbamazepine	carbamazepine
colchicine	Colcrys
colchicine	Gloperba
colchicine	Mitigare
colchicine	colchicine
dextromethorphan Hbr/quinidine sulfate	Nuedexta
dihydroergotamine mesylate	D.H.E.45
dihydroergotamine mesylate	Migranal
dihydroergotamine mesylate	Trudhesa
dihydroergotamine mesylate	dihydroergotamine
dronedarone HCl	Multaq
eletriptan hydrobromide	Relpax
eletriptan hydrobromide	eletriptan
eplerenone	Inspira
eplerenone	eplerenone
ergotamine tartrate	Ergomar
ergotamine tartrate/cafeine	Cafergot
ergotamine tartrate/cafeine	Migergot
ergotamine tartrate/cafeine	ergotamine-cafeine
ezetimibe/simvastatin	Vytorin 10-10
ezetimibe/simvastatin	Vytorin 10-20
ezetimibe/simvastatin	Vytorin 10-40
ezetimibe/simvastatin	Vytorin 10-80
ezetimibe/simvastatin	ezetimibe-simvastatin

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
finerenone	Kerendia
flecainide acetate	flecainide
flibanserin	Addyi
fosphenytoin sodium	Cerebyx
fosphenytoin sodium	fosphenytoin
ivabradine HCl	Corlanor
lomitapide mesylate	Juxtapid
lovastatin	Altoprev
lovastatin	lovastatin
lumacaftor/ivacaftor	Orkambi
lurasidone HCl	Latuda
methylergonovine maleate	Methergine
methylergonovine maleate	methylergonovine
midazolam HCl	midazolam
midazolam/ketamine HCl/ondansetron HCl	MKO (Midazolam-Ketamine-Ondan)
naloxegol oxalate	Movantik
phenobarbital	phenobarbital
phenobarbital sodium	phenobarbital sodium
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	Donnatal
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	Phenohydro
phenobarbital/hyoscyamine sulf/atropine sulf/scopolamine Hb	phenobarb-hyoscy-atropine-scop
phenytoin	Dilantin Infatabs
phenytoin	Dilantin-125
phenytoin	phenytoin
phenytoin sodium	phenytoin sodium
phenytoin sodium extended	Dilantin
phenytoin sodium extended	Dilantin Extended
phenytoin sodium extended	Dilantin Kapseal
phenytoin sodium extended	Phenytek
phenytoin sodium extended	phenytoin sodium extended
pimozide	pimozide
primidone	Mysoline
primidone	primidone
probenecid/colchicine	probenecid-colchicine
propafenone HCl	Rythmol SR
propafenone HCl	propafenone
quinidine gluconate	quinidine gluconate
quinidine sulfate	quinidine sulfate
ranolazine	Aspruzo Sprinkle

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
ranolazine	Ranexa
ranolazine	ranolazine
rifampin	Rifadin
rifampin	rifampin
rifampin/isoniazid	Rifamate
rifampin/isoniazid/pyrazinamide	Rifater
sildenafil citrate	Revatio
sildenafil citrate	sildenafil (pulm.hypertension)
silodosin	Rapaflo
silodosin	silodosin
simvastatin	FloLipid
simvastatin	Zocor
simvastatin	simvastatin
tolvaptan	Jynarque
tolvaptan	Samsca
tolvaptan	tolvaptan
triazolam	Halcion
triazolam	triazolam
ubrogepant	Ubrelvy
voclosporin	Lupkynis

Drugs to be Avoided with Nirmatrelvir/Ritonavir

aliskiren hemifumarate	Tekturna
aliskiren hemifumarate	aliskiren
aliskiren hemifumarate_hydrochlorothiazide	Tekturna HCT
amlodipine besylate_atorvastatin calcium	Caduet
amlodipine besylate_atorvastatin calcium	amlodipine-atorvastatin
atorvastatin calcium	Lipitor
atorvastatin calcium	atorvastatin
avanafil	Stendra
bosentan	Tracleer
bosentan	bosentan
clopidogrel bisulfate	Plavix
clopidogrel bisulfate	clopidogrel
dutasteride_tamsulosin HCl	Jalyn
dutasteride_tamsulosin HCl	dutasteride-tamsulosin
encorafenib	Braftovi
everolimus	Afinitor
everolimus	Afinitor Disperz

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
everolimus	Zortress
everolimus	everolimus (antineoplastic)
everolimus	everolimus (immunosuppressive)
ezetimibe_rosuvastatin calcium	Roszet
ezetimibe_rosuvastatin calcium	ezetimibe-rosuvastatin
fluticasone propionate_salmeterol xinafoate	Advair Diskus
fluticasone propionate_salmeterol xinafoate	Advair HFA
fluticasone propionate_salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate_salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate_salmeterol xinafoate	Wixela Inhub
fluticasone propionate_salmeterol xinafoate	fluticasone propion-salmeterol
glecaprevir_pibrentasvir	Mavyret
ibrutinib	Imbruvica
ivosidenib	Tibsovo
neratinib maleate	Nerlynx
rifapentine	Priftin
rimegepant sulfate	Nurtec ODT
rivaroxaban	Xarelto
rivaroxaban	Xarelto DVT-PE Treat 30d Start
rosuvastatin calcium	Crestor
rosuvastatin calcium	Ezallor Sprinkle
rosuvastatin calcium	rosuvastatin
salmeterol xinafoate	Serevent Diskus
sirolimus	Hyftor
sirolimus	Rapamune
sirolimus	sirolimus
sirolimus protein-bound	Fyarro
suvorexant	Belsomra
tadalafil	Adcirca
tadalafil	Alyq
tadalafil	Cialis
tadalafil	tadalafil
tadalafil	tadalafil (pulm. hypertension)
tamsulosin HCl	Flomax
tamsulosin HCl	tamsulosin
temsirolimus	Torisel
temsirolimus	temsirolimus
ticagrelor	Brilinta
venetoclax	Venclexta

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
venetoclax	Venclexta Starting Pack
vorapaxar sulfate	Zontivity
voriconazole	Vfend
voriconazole	Vfend IV
voriconazole	voriconazole
Other Drug Drug Interactor	
ACYCLOVIR/LIDOCAINE HCL	LidoVir
LIDOCAINE HCL	EnovaRx-Lidocaine HCl
LIDOCAINE HCL/EPINEPHRINE BITARTRATE/TETRACAINE HCL	LETS Kit
LIDOCAINE HCL/PALM OIL	Kamdoy
HYDROXIDE/ALHYDROXIDE/SIMETH/DIPHENHYDRAMINE/LIDOCAINE	FIRST-Mouthwash BLM
NYSTATIN/LIDOCAINE HCL/DIPHENHYDRAMINE HCL	First-BXN
abacavir sulfate/lamivudine/zidovudine	Trizivir
abacavir sulfate/lamivudine/zidovudine	abacavir-lamivudine-zidovudine
abemaciclib	Verzenio
amlodipine benzoate	Katerzia
amlodipine besylate	Norliqva
amlodipine besylate	Norvasc
amlodipine besylate	amlodipine
amlodipine besylate/atorvastatin calcium	Caduet
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/celecoxib	Consensi
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
aripiprazole	Abilify
aripiprazole	Abilify Maintena
aripiprazole	Abilify MyCite
aripiprazole	Abilify MyCite Maintenance Kit
aripiprazole	Abilify MyCite Starter Kit
aripiprazole	aripiprazole
aripiprazole lauroxil	Aristada

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
aripiprazole lauroxil, submicronized	Aristada Initio
atazanavir sulfate	Reyataz
atazanavir sulfate	atazanavir
atazanavir sulfate/cobicistat	Evotaz
azelastine HCl/fluticasone propionate	Dymista
azelastine HCl/fluticasone propionate	azelastine-fluticasone
azelastine/fluticasone/sodium chloride/sodium bicarbonate	Ticalast
bedaquiline fumarate	Sirturo
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
betamethasone acetate and sodium phosph/norflurane/HFC 245fa	Betaloan SUIK
betamethasone acetate and sodium phosph/norflurane/HFC 245fa	Pod-Care 100CG
betamethasone acetate/betamethasone sodium phosphate	BSP-0820
betamethasone acetate/betamethasone sodium phosphate	Beta-1
betamethasone acetate/betamethasone sodium phosphate	Celestone Soluspan
betamethasone acetate/betamethasone sodium phosphate	Pod-Care 100C
betamethasone acetate/betamethasone sodium phosphate	ReadySharp Betamethasone
betamethasone acetate/betamethasone sodium phosphate	betamethasone acet,sod phos
betamethasone dipropionate	Sernivo
betamethasone dipropionate	betamethasone dipropionate
betamethasone dipropionate	betamethasone, augmented
betamethasone dipropionate/propylene glycol	Diprolene (augmented)
betamethasone dipropionate/propylene glycol	betamethasone, augmented
betamethasone sodium phos/chondroitin sulfate A sodium/PF	Klarity-B (betameth-chond)(PF)
betamethasone sodium phosph in sterile water for injection	betamethasone sod phosph-water
betamethasone valerate	Luxiq
betamethasone valerate	betamethasone valerate
bictegravir sodium/emtricitabine/tenofovir alafenamide fumar	Biktarvy
blood collection set/lidocaine/prilocaine	Cadira Compliant Blood Stat
blood collection set/lidocaine/prilocaine	LIDO BDK
brexpiprazole	Rexulti
budesonide	Entocort EC
budesonide	Ortikos
budesonide	Pulmicort
budesonide	Pulmicort Flexhaler
budesonide	Rhinocort Allergy
budesonide	Tarpeyo
budesonide	Uceris
budesonide	budesonide

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
budesonide/formoterol fumarate	Symbicort
budesonide/formoterol fumarate	budesonide-formoterol
budesonide/glycopyrrolate/formoterol fumarate	Breztri Aerosphere
bupivacaine HCl/dexamethasone sodium phos in sterile water	bupivacaine-dexameth in water
bupivacaine/dexamethasone/epinephrine in sodium chloride iso	bupiv-dexamet-epi in sod chlor
bupropion HBr	Aplenzin
bupropion HCl	Forfivo XL
bupropion HCl	Wellbutrin SR
bupropion HCl	Wellbutrin XL
bupropion HCl	bupropion HCl
bupropion HCl	bupropion HCl (smoking deter)
buspirone HCl	buspirone
calcipotriene/betamethasone dipropionate	Enstilar
calcipotriene/betamethasone dipropionate	Taclonex
calcipotriene/betamethasone dipropionate	Wynzora
calcipotriene/betamethasone dipropionate	calcipotriene-betamethasone
cariprazine HCl	Vraylar
ceritinib	Zykadia
ciclesonide	Alvesco
ciclesonide	Omnaris
ciclesonide	Zetonna
ciclopirox/triamcinolone acetonide	Triloliclo
cilostazol	cilostazol
ciprofloxacin HCl/dexamethasone	Ciprodex
ciprofloxacin HCl/dexamethasone	ciprofloxacin-dexamethasone
clarithromycin	clarithromycin
clonazepam	Klonopin
clonazepam	clonazepam
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	clorazepate dipotassium
clotrimazole/betamethasone dipropionate	clotrimazole-betamethasone
clotrimazole/betamethasone dipropionate/zinc oxide	DermacinRx Therazole Pak
clozapine	Clozaril
clozapine	Versacloz
clozapine	clozapine
cyclobenzaprine HCl/lidocaine/menthol	NOpioid-LMC Kit
cyclobenzaprine HCl/lidocaine/menthol	NOpioid-TC Kit
cyclobenzaprine/lidocaine/prilocaine/glycerin	Cyclopak
cyclosporine	Cequa

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
cyclosporine	Restasis
cyclosporine	Restasis MultiDose
cyclosporine	Sandimmune
cyclosporine	Verkazia
cyclosporine	cyclosporine
cyclosporine, modified	Gengraf
cyclosporine, modified	Neoral
cyclosporine, modified	cyclosporine modified
cyclosporine/chondroitin sulfate A sodium	Cyclosporine in Klarity
dabigatran etexilate mesylate	Pradaxa
dabigatran etexilate mesylate	dabigatran etexilate
dapagliflozin propanediol/saxagliptin HCl	Qtern
darifenacin hydrobromide	Enablex
darifenacin hydrobromide	darifenacin
darunavir eth/cobicistat/emtricitabine/tenofovir alafenamide	Symtuza
darunavir ethanolate	Prezista
darunavir ethanolate/cobicistat	Prezcobix
dasatinib	Sprycel
desogestrel-ethinyl estradiol	Apri
desogestrel-ethinyl estradiol	Caziant (28)
desogestrel-ethinyl estradiol	Cyred
desogestrel-ethinyl estradiol	Cyred EQ
desogestrel-ethinyl estradiol	Emoquette
desogestrel-ethinyl estradiol	Enskyce
desogestrel-ethinyl estradiol	Isibloom
desogestrel-ethinyl estradiol	Juleber
desogestrel-ethinyl estradiol	Kalliga
desogestrel-ethinyl estradiol	Reclipsen (28)
desogestrel-ethinyl estradiol	Velivet Triphasic Regimen (28)
desogestrel-ethinyl estradiol	desogestrel-ethinyl estradiol
desogestrel-ethinyl estradiol/ethinyl estradiol	Azurette (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Bekyree (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Kariva (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Mircette (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Pimtrea (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Simliya (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Viorele (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	Volnea (28)
desogestrel-ethinyl estradiol/ethinyl estradiol	desog-e.estradiol/e.estradiol

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
dexamethasone	Decadron
dexamethasone	DexPak 10 day
dexamethasone	DexPak 13 Day
dexamethasone	DexPak 6 Day
dexamethasone	Dexabliss
dexamethasone	Dexamethasone Intensol
dexamethasone	Dextenza
dexamethasone	Dxevo
dexamethasone	Hemady
dexamethasone	HiDex
dexamethasone	Maxidex
dexamethasone	Ozurdex
dexamethasone	TaperDex
dexamethasone	ZCort
dexamethasone	dexamethasone
dexamethasone sod ph/moxifloxacin HCl in NaCl,iso-osmotic/PF	dexameth-moxiflox(PF)-NaCl,iso
dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor/PF	dexamet-moxifl-ketoro-NaCl(PF)
dexamethasone sodium phosphate	Dexonto
dexamethasone sodium phosphate	ReadySharp dexamethasone
dexamethasone sodium phosphate	dexamethasone sodium phosphate
dexamethasone sodium phosphate in 0.9 % sodium chloride	dexamethasone-0.9 % sod. chlor
dexamethasone sodium phosphate/PF	Active Injection Kit D (PF)
dexamethasone sodium phosphate/PF	DoubleDex (PF)
dexamethasone sodium phosphate/PF	MAS Care-Pak (PF)
dexamethasone sodium phosphate/PF	dexamethasone sodium phos (PF)
dexamethasone sodium phosphate/lidocaine HCl	Lidocidex-I
dexamethasone/PF	Dexycu (PF)
dexamethasone/PF/norflurane/pentafluoropropane (HFC 245fa)	DMT SUIK
diazepam	Diastat
diazepam	Diastat AcuDial
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
diazepam	diazepam
diclofenac sodium/lidocaine	Lidovix
diclofenac sodium/lidocaine HCl/kinesiology tape	TriXylitral
diclofenac sodium/lidocaine/methyl salicylate/camphor	Diclovix
digoxin	Digitek
digoxin	Digox

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
digoxin	Lanoxin
digoxin	Lanoxin Pediatric
digoxin	digoxin
digoxin immune fab	DigiFab
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem CD
diltiazem HCl	Cardizem LA
diltiazem HCl	Cartia XT
diltiazem HCl	DILT-XR
diltiazem HCl	Matzim LA
diltiazem HCl	Taztia XT
diltiazem HCl	Tiadyt ER
diltiazem HCl	Tiazac
diltiazem HCl	diltiazem HCl
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
diltiazem HCl/dextrose 5 % in water	diltiazem in dextrose 5 %
disopyramide phosphate	Norpace
disopyramide phosphate	Norpace CR
disopyramide phosphate	disopyramide phosphate
doravirine/lamivudine/tenofovir disoproxil fumarate	Delstrigo
drospirenone/ethinyl estradiol/levomefolate calcium	Beyaz
drospirenone/ethinyl estradiol/levomefolate calcium	Safyral
drospirenone/ethinyl estradiol/levomefolate calcium	Tydemy
drospirenone/ethinyl estradiol/levomefolate calcium	drospirenone-e.estradiol-lm.FA
econazole nitrate/triamcinolone acetonide	Triamazole
efavirenz	Sustiva
efavirenz	efavirenz
efavirenz/emtricitabine/tenofovir disoproxil fumarate	Atripla
efavirenz/emtricitabine/tenofovir disoproxil fumarate	efavirenz-emtricitabin-tenofov
efavirenz/lamivudine/tenofovir disoproxil fumarate	Symfi
efavirenz/lamivudine/tenofovir disoproxil fumarate	Symfi Lo
efavirenz/lamivudine/tenofovir disoproxil fumarate	efavirenz-lamivu-tenofov disop
elbasvir/grazoprevir	Zepatier
elexacaftor/tezacaftor/ivacaftor	Trikafta
elvitegravir/cobicistat/emtricitabine/tenofovir alafenamide	Genvoya
elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil	Stribild
emtricitabine	Emtriva
emtricitabine	emtricitabine
emtricitabine/rilpivirine HCl/tenofovir alafenamide fumarate	Odefsey

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
emtricitabine/rilpivirine HCl/tenofovir disoproxil fumarate	Complera
emtricitabine/tenofovir alafenamide fumarate	Descovy
emtricitabine/tenofovir disoproxil fumarate	Truvada
emtricitabine/tenofovir disoproxil fumarate	emtricitabine-tenofovir (TDF)
erythromycin base	Ery-Tab
erythromycin base	erythromycin
erythromycin base in ethanol	Ery Pads
erythromycin base in ethanol	Erygel
erythromycin base in ethanol	erythromycin with ethanol
erythromycin base/benzoyl peroxide	Benzamycin
erythromycin base/benzoyl peroxide	erythromycin-benzoyl peroxide
erythromycin ethylsuccinate	E.E.S. 400
erythromycin ethylsuccinate	E.E.S. Granules
erythromycin ethylsuccinate	EryPed 200
erythromycin ethylsuccinate	EryPed 400
erythromycin ethylsuccinate	erythromycin ethylsuccinate
erythromycin lactobionate	Erythrocin
erythromycin lactobionate	erythromycin lactobionate
erythromycin stearate	Erythrocin (as stearate)
erythromycin stearate	erythromycin stearate
estazolam	estazolam
ethinyl estradiol/drospirenone	Gianvi (28)
ethinyl estradiol/drospirenone	Jasmiel (28)
ethinyl estradiol/drospirenone	Lo-Zumandimine (28)
ethinyl estradiol/drospirenone	Loryna (28)
ethinyl estradiol/drospirenone	Nikki (28)
ethinyl estradiol/drospirenone	Ocella
ethinyl estradiol/drospirenone	Syeda
ethinyl estradiol/drospirenone	Vestura (28)
ethinyl estradiol/drospirenone	YAZ (28)
ethinyl estradiol/drospirenone	Yasmin (28)
ethinyl estradiol/drospirenone	Zarah
ethinyl estradiol/drospirenone	Zumandimine (28)
ethinyl estradiol/drospirenone	drospirenone-ethinyl estradiol
ethynodiol diacetate-ethinyl estradiol	Kelnor 1-50 (28)
ethynodiol diacetate-ethinyl estradiol	Kelnor 1/35 (28)
ethynodiol diacetate-ethinyl estradiol	Zovia 1-35 (28)
ethynodiol diacetate-ethinyl estradiol	Zovia 1/35E (28)
ethynodiol diacetate-ethinyl estradiol	ethynodiol diac-eth estradiol

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Generic Name	Brand Name
etonogestrel/ethinyl estradiol	EluRyng
etonogestrel/ethinyl estradiol	NuvaRing
etonogestrel/ethinyl estradiol	etonogestrel-ethinyl estradiol
felodipine	felodipine
fentanyl	Duragesic
fentanyl	Subsys
fentanyl	fentanyl
fentanyl citrate	Actiq
fentanyl citrate	Fentora
fentanyl citrate	Lazanda
fentanyl citrate	fentanyl citrate
fentanyl citrate in 0.9 % sodium chloride/PF	fentanyl citrate (PF)-0.9%NaCl
fentanyl citrate in dextrose 5% in water/PF	fentanyl citrate in D5W (PF)
fentanyl citrate/PF	fentanyl citrate (PF)
fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	fentanyl (PF)-bupivacaine-NaCl
fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	fentanyl-ropivacaine-NaCl (PF)
finasteride/tadalafil	Entadfi
flurazepam HCl	flurazepam
fluticasone furoate	Arnuity Ellipta
fluticasone furoate	Children's Flonase Sensimist
fluticasone furoate	Flonase Sensimist
fluticasone furoate/umeclidinium bromide/vilanterol trifenate	Trelegy Ellipta
fluticasone furoate/vilanterol trifenate	Breo Ellipta
fluticasone furoate/vilanterol trifenate	fluticasone furoate-vilanterol
fluticasone propionate	24 Hour Allergy Relief
fluticasone propionate	Aller-Flo
fluticasone propionate	Allergy Relief (fluticasone)
fluticasone propionate	ArmonAir Digihaler
fluticasone propionate	Beser
fluticasone propionate	Children's Flonase Allergy Rlf
fluticasone propionate	ClariSpray
fluticasone propionate	Cutivate
fluticasone propionate	Flonase Allergy Relief
fluticasone propionate	Flovent Diskus
fluticasone propionate	Flovent HFA
fluticasone propionate	Xhance
fluticasone propionate	fluticasone propionate
fluticasone propionate/emollient combination no.65	Beser Kit
fluticasone propionate/salmeterol xinafoate	Advair Diskus

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
fluticasone propionate/salmeterol xinafoate	Advair HFA
fluticasone propionate/salmeterol xinafoate	AirDuo Digihaler
fluticasone propionate/salmeterol xinafoate	AirDuo RespiClick
fluticasone propionate/salmeterol xinafoate	Wixela Inhub
fluticasone propionate/salmeterol xinafoate	fluticasone propion-salmeterol
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticanase
fluticasone propionate/sodium chloride/sodium bicarbonate	Ticaspray
gabapentin/lidocaine	Gabacaine
gabapentin/lidocaine	Pentican
gabapentin/lidocaine HCl/gauze bandage/silicone adhesive	Gabapal
gabapentin/lidocaine HCl/menthol	Active-Pac
gabapentin/lidocaine HCl/silicone adhesive	Lidotin
gabapentin/lidocaine/prilocaine/transparent dressing	Lipritin
gabapentin/lidocaine/prilocaine/transparent dressing	Lipritin II
glucose sensor,implantable,continuous/dexamethasone acetate	Eversense E3 Sensor-Holder
glucose sensor,implantable,continuous/dexamethasone acetate	Eversense Sensor-Holder
hydrocodone bitartrate	Hysingla ER
hydrocodone bitartrate	Zohydro ER
hydrocodone bitartrate	hydrocodone bitartrate
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone bitartrate/guaifenesin	Obredon
hydrocodone bitartrate/homatropine methylbromide	Hycodan
hydrocodone bitartrate/homatropine methylbromide	Hycodan (with homatropine)
hydrocodone bitartrate/homatropine methylbromide	Hydrocodone Compound
hydrocodone bitartrate/homatropine methylbromide	Hydromet
hydrocodone bitartrate/homatropine methylbromide	hydrocodone-homatropine
hydrocodone polistirex/chlorpheniramine polistirex	TussiCaps
hydrocodone polistirex/chlorpheniramine polistirex	hydrocodone-chlorpheniramine
hydrocodone/ibuprofen	hydrocodone-ibuprofen
hydrocortisone acetate/lidocaine HCl/aloe vera	Ana-Lex Kit
hydrocortisone acetate/lidocaine HCl/aloe vera	lidocaine-hydrocortisone-aloe
iloperidone	Fanapt
isavuconazonium sulfate	Cresemba
itraconazole	Onmel

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
itraconazole	Sporanox
itraconazole	Sporanox Pulsepak
itraconazole	Tolsura
itraconazole	itraconazole
ivacaftor	Kalydeco
ketoconazole	Extina
ketoconazole	Ketodan
ketoconazole	Nizoral A-D
ketoconazole	Xolegel
ketoconazole	ketoconazole
ketoconazole/hydrocortisone	Pheyo
ketoconazole/hydrocortisone	ketoconazole-hydrocortisone
ketoconazole/iodoquinol/hydrocortisone	Pheodoyo
ketoconazole/iodoquinol/hydrocortisone	ketoconazole-iodoquinol-hc
ketoconazole/miconazole nitrate	Pedizol Pak
ketoconazole/niacinamide	ketoconazole-niacinamide
ketoconazole/skin cleanser combination no.28	Ketodan Kit
lamivudine/tenofovir disoproxil fumarate	Cimduo
lamivudine/tenofovir disoproxil fumarate	Temixys
lamivudine/zidovudine	Combivir
lamivudine/zidovudine	lamivudine-zidovudine
lansoprazole/amoxicillin trihydrate/clarithromycin	amoxicil-clarithromy-lansopraz
ledipasvir/sofosbuvir	Harvoni
ledipasvir/sofosbuvir	ledipasvir-sofosbuvir
levamlodipine maleate	Conjupri
levamlodipine maleate	levamlodipine
levoketoconazole	Recorlev
levonorgestrel/ethinyl estradiol	Afirmelle
levonorgestrel/ethinyl estradiol	Altavera (28)
levonorgestrel/ethinyl estradiol	Amethyst (28)
levonorgestrel/ethinyl estradiol	Aubra
levonorgestrel/ethinyl estradiol	Aubra EQ
levonorgestrel/ethinyl estradiol	Aviane
levonorgestrel/ethinyl estradiol	Ayuna
levonorgestrel/ethinyl estradiol	Chateal (28)
levonorgestrel/ethinyl estradiol	Chateal EQ (28)
levonorgestrel/ethinyl estradiol	Dolishale
levonorgestrel/ethinyl estradiol	Enpresse
levonorgestrel/ethinyl estradiol	Falmina (28)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
levonorgestrel/ethinyl estradiol	Iclevia
levonorgestrel/ethinyl estradiol	Jolessa
levonorgestrel/ethinyl estradiol	Kurvelo (28)
levonorgestrel/ethinyl estradiol	Larissia
levonorgestrel/ethinyl estradiol	Lessina
levonorgestrel/ethinyl estradiol	Levonest (28)
levonorgestrel/ethinyl estradiol	Levora-28
levonorgestrel/ethinyl estradiol	Lillow (28)
levonorgestrel/ethinyl estradiol	Lutera (28)
levonorgestrel/ethinyl estradiol	Marlissa (28)
levonorgestrel/ethinyl estradiol	Orsythia
levonorgestrel/ethinyl estradiol	Portia 28
levonorgestrel/ethinyl estradiol	Setlakin
levonorgestrel/ethinyl estradiol	Sronyx
levonorgestrel/ethinyl estradiol	Trivora (28)
levonorgestrel/ethinyl estradiol	Twirla
levonorgestrel/ethinyl estradiol	Tyblume
levonorgestrel/ethinyl estradiol	Vienva
levonorgestrel/ethinyl estradiol	levonorg-eth estrad triphasic
levonorgestrel/ethinyl estradiol	levonorgestrel-ethinyl estrad
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Amethia
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Amethia Lo
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Ashlyna
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Camrese
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Camrese Lo
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Daysee
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Jaimiess
levonorgestrel/ethinyl estradiol and ethinyl estradiol	L norgest/e.estradiol-e.estrad
levonorgestrel/ethinyl estradiol and ethinyl estradiol	LoJaimiess
levonorgestrel/ethinyl estradiol and ethinyl estradiol	LoSeasonique
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Quartette
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Rivelsa
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Seasonique
levonorgestrel/ethinyl estradiol and ethinyl estradiol	Simpeesse
levonorgestrel/ethinyl estradiol/ferrous bisglycinate	Balcoltra
lidocaine	AneCream5
lidocaine	Anecream
lidocaine	AsperFlex (lidocaine)
lidocaine	Aspercreme (lidocaine)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
lidocaine	Blue Tube
lidocaine	Blue-Emu Lidocaine Patch
lidocaine	Gen7T
lidocaine	Hemorrhoidal Relief
lidocaine	LC-5
lidocaine	LMX 4
lidocaine	LMX 5
lidocaine	Lido King
lidocaine	LidoFore
lidocaine	LidoReal-30
lidocaine	Lidocaine Pain Relief
lidocaine	Lidocare
lidocaine	Lidoderm
lidocaine	Lidopac
lidocaine	Lidovex
lidocaine	Moxicaine
lidocaine	RectaSmoothe
lidocaine	RectiCare
lidocaine	Salonpas (lidocaine)
lidocaine	Topicaine
lidocaine	Tranzarel
lidocaine	ZTlido
lidocaine	Ziloval
lidocaine	lidocaine
lidocaine HCl	Alocane Emergency Burn
lidocaine HCl	Anastia
lidocaine HCl	AsperFlex (lidocaine HCl)
lidocaine HCl	Aspercreme (lidocaine HCl)
lidocaine HCl	Astero
lidocaine HCl	Burn Relief with Lidocaine
lidocaine HCl	Burn Spray (lidocaine)
lidocaine HCl	DermacinRx Lidogel
lidocaine HCl	DermacinRx Lidorex
lidocaine HCl	Eha (lidocaine)
lidocaine HCl	Glydo
lidocaine HCl	Gold Bond Medicated Pain-Itch
lidocaine HCl	LDO Plus
lidocaine HCl	LTA Pre-Attached
lidocaine HCl	LidaFlex

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
lidocaine HCl	Lido-K
lidocaine HCl	Lido-Sorb
lidocaine HCl	LidoDose
lidocaine HCl	LidoRx
lidocaine HCl	Lidocaine Plus
lidocaine HCl	Lidocaine Viscous
lidocaine HCl	Lidopin
lidocaine HCl	Lidotral
lidocaine HCl	Lidozion
lidocaine HCl	Lidtopic Max
lidocaine HCl	Miaderm-L
lidocaine HCl	Numbonex
lidocaine HCl	Pain Relief (lidocaine)
lidocaine HCl	RadiaGuard
lidocaine HCl	Sunburnt Plus Pain Relief
lidocaine HCl	Xolido
lidocaine HCl	Xolido XP
lidocaine HCl	Xylocaine
lidocaine HCl	Zingo
lidocaine HCl	Zionodil
lidocaine HCl	lidocaine HCl
lidocaine HCl buffered with 8.4 % sodium bicarbonate	Buffered Lidocaine
lidocaine HCl buffered with sodium phosphate	lidocaine with sod phosphate
lidocaine HCl in 0.9 % sodium chloride/PF	lidocaine HCl(PF) in 0.9% NaCl
lidocaine HCl in dextrose 5% in water/PF	lidocaine in 5 % dextrose (PF)
lidocaine HCl in dextrose 7.5 % in water/PF	lidocaine (PF) in D7.5W
lidocaine HCl in sodium chloride, iso-osmotic/PF	lidocaine in NaCl,iso-osmo(PF)
lidocaine HCl/PF	Akten (PF)
lidocaine HCl/PF	P-Care X (PF)
lidocaine HCl/PF	ReadySharp lidocaine (PF)
lidocaine HCl/PF	Xylocaine (Cardiac) (PF)
lidocaine HCl/PF	Xylocaine-MPF
lidocaine HCl/PF	lidocaine (PF)
lidocaine HCl/PF/adhesive bandage	Lidomark 1-5
lidocaine HCl/PF/adhesive bandage	Lidomark 2-5
lidocaine HCl/PF/norflurane/pentafluoropropane (HFC 245fa)	Accucaine Kit
lidocaine HCl/aloe vera/collagen,bovine	Foraxa
lidocaine HCl/aloe vera/collagen,bovine	Lidotrex
lidocaine HCl/aloe vera/collagen,bovine	Suivicort

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
lidocaine HCl/aloe vera/collagen,bovine	Vexasyn
lidocaine HCl/benzalkonium chloride	Alocane Plus
lidocaine HCl/benzalkonium chloride	Bactine Pain Relieving Cleans
lidocaine HCl/benzalkonium chloride	First Aid (lidocaine-benzalk)
lidocaine HCl/benzalkonium chloride	LevigoSP
lidocaine HCl/benzalkonium chloride	Medi-First Burn Cream
lidocaine HCl/benzalkonium chloride/alcohol	Bactine (with alcohol)
lidocaine HCl/benzocaine/methyl salicylate/capsaicin	Adazin
lidocaine HCl/benzyl alcohol	Salonpas Lidocaine Plus
lidocaine HCl/collagen	Proxivol
lidocaine HCl/collagen	Regenecare
lidocaine HCl/epinephrine	Xylocaine with Epinephrine
lidocaine HCl/epinephrine	lidocaine-epinephrine
lidocaine HCl/epinephrine bitartrate	Xylocaine Dental-Epinephrine
lidocaine HCl/epinephrine bitartrate	lidocaine-epinephrine bit
lidocaine HCl/epinephrine bitartrate/tetracaine HCl	L.E.T.(lido-epineph bit-tetra)
lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	lidocaine-epineph-sodium chlor
lidocaine HCl/epinephrine/PF	D-Care 100X (PF)
lidocaine HCl/epinephrine/PF	Xylocaine-MPF/Epinephrine
lidocaine HCl/epinephrine/PF	lidocaine-epinephrine (PF)
lidocaine HCl/glycerin	Advanced DNA Medicated Collect
lidocaine HCl/glycerin	Pro DNA Collection
lidocaine HCl/glycerin	RectiCare (glycerin)
lidocaine HCl/hyaluronic acid/aloe vera/collagen	Regenecare HA
lidocaine HCl/hydrocortisone acetate	Lidocort
lidocaine HCl/hydrocortisone acetate	lidocaine HCl-hydrocortison ac
lidocaine HCl/menthol	Aflexeryl-LC
lidocaine HCl/menthol	AvaDERM
lidocaine HCl/menthol	Endoxcin
lidocaine HCl/menthol	Icy Hot Max (lido HCl-menthol)
lidocaine HCl/menthol	LenzaGel
lidocaine HCl/menthol	LenzaPatch
lidocaine HCl/menthol	LenzaPro Flex
lidocaine HCl/menthol	LevigoLT
lidocaine HCl/menthol	LidoMet-10
lidocaine HCl/menthol	LidozenGel
lidocaine HCl/menthol	LidozenPatch
lidocaine HCl/menthol	MTX
lidocaine HCl/menthol	MenthoReal-10

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Generic Name	Brand Name
lidocaine HCl/menthol	NuLido
lidocaine HCl/menthol	Puroxcin
lidocaine HCl/menthol	SynoFlex
lidocaine HCl/menthol	Synvexia TC
lidocaine HCl/menthol	ValleMent
lidocaine HCl/menthol	lidocaine HCl-menthol
lidocaine HCl/methyl salicylate/capsaicin/menthol	FourPainRX
lidocaine HCl/methyl salicylate/capsaicin/menthol	LidoPro
lidocaine HCl/methyl salicylate/menthol	WPR Plus
lidocaine HCl/palm oil	Aladerm Plus
lidocaine HCl/palm oil	Iliderm
lidocaine HCl/palm oil	KamDoy
lidocaine HCl/phenylephrine HCl/water for injection,sterile	lidocaine-phenylephrn in water
lidocaine HCl/phenylephrine/balanced salt irrigation no.2/PF	lidocaine-phenylephrin-BSS(PF)
lidocaine HCl/racepinephrine HCl/tetracaine HCl	L.E.T. (lido-epineph-tetra)
lidocaine HCl/racepinephrine HCl/tetracaine HCl	lidocaine-racepinep-tetracaine
lidocaine HCl/vitamin E acetate/tea tree oil	Burn Jel Plus
lidocaine/aloe vera	Aloe Burn Relief
lidocaine/aloe vera	Burn Relief with Aloe
lidocaine/aloe vera	Solarcaine Aloe Extra
lidocaine/aloe vera	Solarcaine Cool Aloe
lidocaine/aloe vera	lidocaine-aloe vera
lidocaine/benzethonium chloride	Blood Clotting Spray
lidocaine/dimethicone	DermacinRx ZRM Pak
lidocaine/dimethicone	Dermazyl Kit
lidocaine/elastic bandage	Dermalid
lidocaine/emollient combination no.102	DermacinRx PHN Pak
lidocaine/emollient combination no.102	Neurcaine
lidocaine/kinesiology tape	LidoPure Patch
lidocaine/kinesiology tape	Xryliderm
lidocaine/kinesiology tape	Zeyocaine
lidocaine/menthol	1st Relief
lidocaine/menthol	AsperFlex Max
lidocaine/menthol	Elemar
lidocaine/menthol	Exigence
lidocaine/menthol	Gen7T Plus
lidocaine/menthol	Hot and Cold Pain Relief
lidocaine/menthol	Icy Hot Patch (lido-menthol)
lidocaine/menthol	LMR Plus

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Generic Name	Brand Name
lidocaine/menthol	LenzaPro
lidocaine/menthol	LidAll
lidocaine/menthol	Limencin (lidocaine-menthol)
lidocaine/menthol	Mentho-Caine
lidocaine/menthol	NuLido Patch
lidocaine/menthol	Terocin (lidocaine-menthol)
lidocaine/menthol	Zylotrol
lidocaine/menthol	lidocaine-menthol
lidocaine/menthol/aloe vera	Aloe Vera Pain Relieving
lidocaine/menthol/camphor/dimethicone	Neptune Ice
lidocaine/methyl salicylate/camphor	CLM Patch
lidocaine/methyl salicylate/camphor	CML
lidocaine/methyl salicylate/camphor	LMC
lidocaine/methyl salicylate/camphor	LiMetCam
lidocaine/methyl salicylate/camphor	MCL
lidocaine/methyl salicylate/camphor	MLC
lidocaine/methyl salicylate/camphor	Viva Patch
lidocaine/methyl salicylate/capsaicin/menthol	1st Medx-Patch With Lidocaine
lidocaine/methyl salicylate/capsaicin/menthol	Doloracin-L-Rx
lidocaine/methyl salicylate/capsaicin/menthol	Medi-Derm-L
lidocaine/methyl salicylate/capsaicin/menthol	Medi-Derm-L-Rx
lidocaine/methyl salicylate/capsaicin/menthol	Medi-Patch
lidocaine/methyl salicylate/capsaicin/menthol	Transderm-iQ
lidocaine/methyl salicylate/menthol	LidoPro Patch
lidocaine/methyl salicylate/menthol	Solupak
lidocaine/methyl salicylate/menthol/camphor	CBD-Kings With Lidocaine
lidocaine/phenylephrine HCl/glycerin/petrolatum,white	Preparation H Rapid Rlf-Lidocn
lidocaine/prilocaine	AgonEaze
lidocaine/prilocaine	Anodyne LPT
lidocaine/prilocaine	Aprizio Pak
lidocaine/prilocaine	Aprizio Pak II
lidocaine/prilocaine	DermacinRx Empricaine
lidocaine/prilocaine	DermacinRx Prizopak
lidocaine/prilocaine	Dolotranz
lidocaine/prilocaine	Empricaine-II
lidocaine/prilocaine	Lido-Prilo Caine Pack
lidocaine/prilocaine	Lidopril
lidocaine/prilocaine	Lidopril XR
lidocaine/prilocaine	Lidotor

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
lidocaine/prilocaine	Livixil Pak
lidocaine/prilocaine	Oraqix
lidocaine/prilocaine	Prikaan
lidocaine/prilocaine	Prikaan Lite
lidocaine/prilocaine	Prilo Patch
lidocaine/prilocaine	Prilo Patch II
lidocaine/prilocaine	PriloHeal Plus 30
lidocaine/prilocaine	Prilolid
lidocaine/prilocaine	Prilovix
lidocaine/prilocaine	Prilovix Lite
lidocaine/prilocaine	Prilovix Lite Plus
lidocaine/prilocaine	Prilovix Plus
lidocaine/prilocaine	Prilovix Ultralite
lidocaine/prilocaine	Prilovix Ultralite Plus
lidocaine/prilocaine	Prilovixil
lidocaine/prilocaine	Prizopak II
lidocaine/prilocaine	Realheal-I
lidocaine/prilocaine	Relador Pak
lidocaine/prilocaine	Relador Pak Plus
lidocaine/prilocaine	SkyaDerm-LP
lidocaine/prilocaine	VallaDerm-90
lidocaine/prilocaine	lidocaine-prilocaine
lidocaine/prilocaine/benzalkonium chloride/dressing	Microvix LP
lidocaine/prilocaine/lidocaine HCl	Prizotral
lidocaine/prilocaine/lidocaine HCl	Prizotral-II
lidocaine/prilocaine/methyl salicylate/menthol	PainGo KFT
lidocaine/prilocaine/silicone, adhesive	Nuvakaan
lidocaine/prilocaine/silicone, adhesive	Nuvakaan-II
lidocaine/silicone, adhesive	Zilacaine Patch
lidocaine/skin cleanser combination no.37	LidoRxKit
lidocaine/tetracaine	Pliaglis
lidocaine/tetracaine	Synera
lidocaine/tetracaine	lidocaine-tetracaine
lidocaine/tetracaine/benzocaine	Enznonuty
lidocaine/transparent dressing	Anecream (with dressings)
lidocaine/transparent dressing	LMX 4
lidocaine/transparent dressing	LMX 4 Plus
lidocaine/transparent dressing	LidoHeal-90
lidocaine/transparent dressing	Lidotrans 5 Pak

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
lidocaine/transparent dressing	lidocaine-transparent dressing
lidocaine/trolamine salicylate/capsaicin	Sponix Arthritis-Muscle Pain
lopinavir/ritonavir	Kaletra
lopinavir/ritonavir	lopinavir-ritonavir
lumateperone tosylate	Caplyta
maraviroc	Selzentry
maraviroc	maraviroc
meperidine HCl	Demerol
meperidine HCl	meperidine
meperidine HCl in 0.9 % sodium chloride/PF	meperidine (PF) in 0.9 % NaCl
meperidine HCl/PF	Demerol (PF)
meperidine HCl/PF	meperidine (PF)
methadone HCl	Diskets
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
methylprednisolone	Medrol
methylprednisolone	Medrol (Pak)
methylprednisolone	Methylpred DP
methylprednisolone	methylprednisolone
methylprednisolone acetate	Depo-Medrol
methylprednisolone acetate	P-Care D40
methylprednisolone acetate	P-Care D80
methylprednisolone acetate	methylprednisolone acetate
methylprednisolone acetate in sodium chloride,iso-osmotic/PF	methylpred ac(PF)-NaCl,iso-osm
methylprednisolone acetate/norflurane/HFC 245fa	Medroloan II SUIK
methylprednisolone acetate/norflurane/HFC 245fa	Medroloan SUIK
methylprednisolone acetate/norflurane/HFC 245fa	P-Care D40G
methylprednisolone acetate/norflurane/HFC 245fa	P-Care D80G
methylprednisolone sodium succinate	Solu-Medrol
methylprednisolone sodium succinate	methylprednisolone sodium succ
methylprednisolone sodium succinate/PF	Solu-Medrol (PF)
midazolam	Nayzilam
midazolam HCl	midazolam
midazolam HCl in 0.9 % sodium chloride	midazolam in 0.9 % sod chlorid
midazolam HCl in 0.9 % sodium chloride/PF	midazolam (PF) in 0.9 % NaCl
midazolam HCl in dextrose 5% in water	midazolam in dextrose 5 %
midazolam HCl/PF	midazolam (PF)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
midazolam in sodium chloride, iso-osmotic	midazolam in NaCl, iso-osmotic
midazolam in sodium chloride, iso-osmotic/PF	midazolam in NaCl,iso-osmo(PF)
minoxidil/betamethasone dipropionate	Oxopod
minoxidil/betamethasone dipropionate	minoxidil-betamethasone
mometasone furoate	Asmanex HFA
mometasone furoate	Asmanex Twisthaler
mometasone furoate	Nasonex
mometasone furoate	Sinuva
mometasone furoate	mometasone
mometasone furoate/dimethicone	Quinixil
mometasone furoate/formoterol fumarate	Dulera
mupirocin/lidocaine	mupirocin-lidocaine
naltrexone HCl/bupropion HCl	Contrave
neomycin sulfate/bacitracin zinc/polymyxin B/lidocaine HCl	ProCoMycin
neomycin/polymyxin B sulfate/dexamethasone	Maxitrol
neomycin/polymyxin B sulfate/dexamethasone	neomycin-polymyxin B-dexameth
nevirapine	Viramune
nevirapine	Viramune XR
nevirapine	nevirapine
nicardipine HCl	Cardene IV
nicardipine HCl	nicardipine
nicardipine HCl in 0.9 % sodium chloride	nicardipine in 0.9 % sod chlor
nicardipine in dextrose, iso-osmotic	Cardene IV in dextrose
nicardipine in sodium chloride, iso-osmotic	Cardene IV in sodium chloride
nicardipine in sodium chloride, iso-osmotic	nicardipine in NaCl (iso-os)
nifedipine	Procardia
nifedipine	Procardia XL
nifedipine	nifedipine
nilotinib HCl	Tasigna
norelgestromin/ethinyl estradiol	Xulane
norelgestromin/ethinyl estradiol	Zafemy
norethindrone acetate-ethinyl estradiol	Aurovela 1.5/30 (21)
norethindrone acetate-ethinyl estradiol	Aurovela 1/20 (21)
norethindrone acetate-ethinyl estradiol	Femhrt Low Dose
norethindrone acetate-ethinyl estradiol	Fyavolv
norethindrone acetate-ethinyl estradiol	Hailey
norethindrone acetate-ethinyl estradiol	Jinteli
norethindrone acetate-ethinyl estradiol	Junel 1.5/30 (21)
norethindrone acetate-ethinyl estradiol	Junel 1/20 (21)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
norethindrone acetate-ethinyl estradiol	Larin 1.5/30 (21)
norethindrone acetate-ethinyl estradiol	Larin 1/20 (21)
norethindrone acetate-ethinyl estradiol	Loestrin 1.5/30 (21)
norethindrone acetate-ethinyl estradiol	Loestrin 1/20 (21)
norethindrone acetate-ethinyl estradiol	Microgestin 1.5/30 (21)
norethindrone acetate-ethinyl estradiol	Microgestin 1/20 (21)
norethindrone acetate-ethinyl estradiol	norethindrone ac-eth estradiol
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Aurovela 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Aurovela Fe 1-20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Aurovela Fe 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Blisovi 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Blisovi Fe 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Blisovi Fe 1/20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Charlotte 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Estrostep Fe-28
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Finzala
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Gemmily
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Hailey 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Hailey Fe 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Hailey Fe 1/20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Junel FE 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Junel FE 1/20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Junel Fe 24
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Larin 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Larin Fe 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Larin Fe 1/20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Lo Loestrin Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Loestrin Fe 1.5/30 (28-Day)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Loestrin Fe 1/20 (28-Day)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Melodetta 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Merzee
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Mibelas 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Microgestin 24 FE
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Microgestin FE 1/20 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Microgestin Fe 1.5/30 (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Minastrin 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Tarina 24 Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Tarina Fe 1-20 EQ (28)
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Tarina Fe 1/20 (28)

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Taysofy
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Taytulla
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Tilia Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	Tri-Ligest Fe
norethindrone acetate-ethinyl estradiol/ferrous fumarate	norethindrone-e.estradiol-iron
norethindrone-ethinyl estradiol	Alyacen 1/35 (28)
norethindrone-ethinyl estradiol	Alyacen 7/7/7 (28)
norethindrone-ethinyl estradiol	Aranelle (28)
norethindrone-ethinyl estradiol	Balziva (28)
norethindrone-ethinyl estradiol	Briellyn
norethindrone-ethinyl estradiol	Cyclafem 1/35 (28)
norethindrone-ethinyl estradiol	Cyclafem 7/7/7 (28)
norethindrone-ethinyl estradiol	Dasetta 1/35 (28)
norethindrone-ethinyl estradiol	Dasetta 7/7/7 (28)
norethindrone-ethinyl estradiol	Leena 28
norethindrone-ethinyl estradiol	Necon 0.5/35 (28)
norethindrone-ethinyl estradiol	Nortrel 0.5/35 (28)
norethindrone-ethinyl estradiol	Nortrel 1/35 (21)
norethindrone-ethinyl estradiol	Nortrel 1/35 (28)
norethindrone-ethinyl estradiol	Nortrel 7/7/7 (28)
norethindrone-ethinyl estradiol	Nylia 1/35 (28)
norethindrone-ethinyl estradiol	Nylia 7/7/7 (28)
norethindrone-ethinyl estradiol	Ortho-Novum 7/7/7 (28)
norethindrone-ethinyl estradiol	Philith
norethindrone-ethinyl estradiol	Pirmella
norethindrone-ethinyl estradiol	Vyfemla (28)
norethindrone-ethinyl estradiol	Wera (28)
norethindrone-ethinyl estradiol/ferrous fumarate	Generess Fe
norethindrone-ethinyl estradiol/ferrous fumarate	Kaitlib Fe
norethindrone-ethinyl estradiol/ferrous fumarate	Layolis Fe
norethindrone-ethinyl estradiol/ferrous fumarate	Wymzya Fe
norethindrone-ethinyl estradiol/ferrous fumarate	noreth-ethinyl estradiol-iron
norgestimate-ethinyl estradiol	Estarylla
norgestimate-ethinyl estradiol	Femynor
norgestimate-ethinyl estradiol	Mili
norgestimate-ethinyl estradiol	Mono-Linyah
norgestimate-ethinyl estradiol	Nymyo
norgestimate-ethinyl estradiol	Ortho Tri-Cyclen (28)
norgestimate-ethinyl estradiol	Previfem

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
norgestimate-ethinyl estradiol	Sprintec (28)
norgestimate-ethinyl estradiol	Tri Femynor
norgestimate-ethinyl estradiol	Tri-Estarylla
norgestimate-ethinyl estradiol	Tri-Linyah
norgestimate-ethinyl estradiol	Tri-Lo-Estarylla
norgestimate-ethinyl estradiol	Tri-Lo-Marzia
norgestimate-ethinyl estradiol	Tri-Lo-Mili
norgestimate-ethinyl estradiol	Tri-Lo-Sprintec
norgestimate-ethinyl estradiol	Tri-Mili
norgestimate-ethinyl estradiol	Tri-Nymyo
norgestimate-ethinyl estradiol	Tri-Previfem (28)
norgestimate-ethinyl estradiol	Tri-Sprintec (28)
norgestimate-ethinyl estradiol	Tri-VyLibra
norgestimate-ethinyl estradiol	Tri-VyLibra Lo
norgestimate-ethinyl estradiol	VyLibra
norgestimate-ethinyl estradiol	norgestimate-ethinyl estradiol
norgestrel-ethinyl estradiol	Cryselle (28)
norgestrel-ethinyl estradiol	Elinest
norgestrel-ethinyl estradiol	Low-Ogestrel (28)
nystatin/triamcinolone acetonide	nystatin-triamcinolone
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
ombitasvir/paritaprevir/ritonavir/dasabuvir sodium	Viekira Pak
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak
oxycodone HCl	Oxaydo
oxycodone HCl	OxyContin
oxycodone HCl	Roxicodone
oxycodone HCl	RoxyBond
oxycodone HCl	oxycodone
oxycodone HCl/acetaminophen	Endocet
oxycodone HCl/acetaminophen	Nalocet
oxycodone HCl/acetaminophen	Percocet
oxycodone HCl/acetaminophen	Primlev
oxycodone HCl/acetaminophen	Prolate
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone myristate	Xtampza ER
perindopril arginine/amlodipine besylate	Prestalia

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
pimavanserin tartrate	Nuplazid
potassium chloride/lidocaine HCl in 0.9 % sodium chloride	potassium Cl-lido-0.9 % sodchl
quetiapine fumarate	Seroquel
quetiapine fumarate	Seroquel XR
quetiapine fumarate	quetiapine
racepinephrine HCl/lidocaine HCl/balanced salt soln no.7/PF	racepineph-lidocaine-BSS 7(PF)
rifabutin	Mycobutin
rifabutin	rifabutin
riociguat	Adempas
ritonavir	Norvir
ritonavir	ritonavir
salicylic acid/cimetidine/lidocaine	Guanendrux
salicylic acid/cimetidine/lidocaine	salicylic-cimetidine-lidocaine
saxagliptin HCl	Onglyza
saxagliptin HCl/metformin HCl	Kombiglyze XR
segesterone acetate/ethinyl estradiol	Annovera
sildenafil citrate	Viagra
sildenafil citrate	sildenafil
sofosbuvir	Sovaldi
sofosbuvir/velpatasvir	Epclusa
sofosbuvir/velpatasvir	sofosbuvir-velpatasvir
sofosbuvir/velpatasvir/voxilaprevir	Vosevi
tacrolimus	Astagraf XL
tacrolimus	Envarsus XR
tacrolimus	Prograf
tacrolimus	Protopic
tacrolimus	tacrolimus
tacrolimus in vehicle base no.238	tacrolimus-vehicle base no.238
tacrolimus/hyaluronate sodium/niacinamide	Oxianujo (with hyaluronate)
tacrolimus/hyaluronate sodium/niacinamide	tacrolimus-hyaluronate-niacin
tacrolimus/niacinamide	Oxianujo
tacrolimus/niacinamide	tacrolimus-niacinamide
tadalafil	Cialis
tadalafil	tadalafil
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
tenofovir alafenamide	Vemlidy
tenofovir disoproxil fumarate	Viread
tenofovir disoproxil fumarate	tenofovir disoproxil fumarate

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
tezacaftor/ivacaftor	Symdeko
tipranavir	Aptivus
tipranavir/vitamin E TPGS	Aptivus (with vitamin E)
tobramycin/dexamethasone	TobraDex
tobramycin/dexamethasone	Tobradex ST
tobramycin/dexamethasone	tobramycin-dexamethasone
tofacitinib citrate	Xeljanz
tofacitinib citrate	Xeljanz XR
trandolapril/verapamil HCl	
trazodone HCl	trazodone
triamcinolone acetonide	24 Hour Nasal Allergy
triamcinolone acetonide	Aller-Cort
triamcinolone acetonide	Children's Nasacort
triamcinolone acetonide	Kenalog
triamcinolone acetonide	Kenalog-40
triamcinolone acetonide	Kenalog-80
triamcinolone acetonide	Nasacort
triamcinolone acetonide	Nasacort Allergy
triamcinolone acetonide	Nasal Allergy
triamcinolone acetonide	Oralone
triamcinolone acetonide	P-Care K40
triamcinolone acetonide	P-Care K80
triamcinolone acetonide	Pod-Care 100K
triamcinolone acetonide	Pro-C-Dure 5
triamcinolone acetonide	Pro-C-Dure 6
triamcinolone acetonide	Trianex
triamcinolone acetonide	Triderm
triamcinolone acetonide	Tritocin
triamcinolone acetonide	Zilretta
triamcinolone acetonide	triamcinolone acetonide
triamcinolone acetonide/0.9% sodium chloride/PF	triamcinol ac (PF) in 0.9%NaCl
triamcinolone acetonide/PF	Triesence (PF)
triamcinolone acetonide/PF	Xipere (PF)
triamcinolone acetonide/dimethicone	Ellzia Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	DermaWerx SDS
triamcinolone acetonide/dimethicone/silicone, adhesive	NuTriaRx
triamcinolone acetonide/dimethicone/silicone, adhesive	SanaDermRx
triamcinolone acetonide/dimethicone/silicone, adhesive	Sure Result Tac Pak
triamcinolone acetonide/dimethicone/silicone, adhesive	TriHeal-80

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
triamcinolone acetonide/dimethicone/silicone, adhesive	TriaDime-80
triamcinolone acetonide/dimethicone/silicone, adhesive	Trivix
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm TDPak
triamcinolone acetonide/dimethicone/silicone, adhesive	Whytederm Trilasil Pak
triamcinolone acetonide/gauze bandage/silicone, adhesive	Sila III
triamcinolone acetonide/lidocaine HCl	Lidocilone I
triamcinolone acetonide/moxifloxacin HCl/water/PF	triamcinolon-moxiflox-watr(PF)
triamcinolone acetonide/niacinamide	triamcinolone-niacinamide
triamcinolone acetonide/silicones	SilaLite Pak
triamcinolone hexacetonide	Aristospan Intra-Articular
triamcinolone hexacetonide	Aristospan Intralesional
triamcinolone hexacetonide	Hexatrione
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	P-Care K40G
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	P-Care K80G
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Pod-Care 100KG
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Triloan II SUIK
triamcinolone/norflurane and pentafluoropropane (HFC 245fa)	Triloan SUIK
upadacitinib	Rinvoq
varденаfil HCl	Levitra
varденаfil HCl	Staxyn
varденаfil HCl	varденаfil
verapamil HCl	
vinblastine sulfate	vinblastine
vincristine sulfate	Vincasar PFS
vincristine sulfate	vincristine
vincristine sulfate liposomal	Marqibo
vitamin E/lidocaine/aloe vera/collagen	Lidotrex (with vitamin E)
vitamin E/lidocaine/aloe vera/collagen	Regenecare with Aloe
vonoprazan fumarate/amoxicillin trihydrate/clarithromycin	Voquezna Triple Pak
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	warfarin
zidovudine	Retrovir
zidovudine	zidovudine
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	Zolpimist

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
zolpidem tartrate	zolpidem
Steroid or Corticosteroid Dispensing	
BETAMETHASONE	
BUDESONIDE	
CORTISONE ACETATE	
DEFLAZACORT	
DEXAMETHASONE	
DEXAMETHASONE INTENSOL	
FLUDROCORTISONE ACETATE	
HYDROCORTISONE	
METHYLPREDNISOLONE	
PREDNISOLONE	
PREDNISOLONE ACETATE	
PREDNISOLONE SODIUM PHOSPHATE	
PREDNISONE	
TRIAMCINOLONE	
Immunosuppressant Treatment	
ABATACEPT	
ADALIMUMAB	
ANAKINRA	
ANTI/THYMOCYTE	
APREMILAST	
AURANOFIN	
AUROTHIOGLUCOSE	
AZATHIOPRINE	
BARICITINIB	
BASILIXIMAB	
BELATACEPT	
BELIMUMAB	
CANAKINUMAB	
CYCLOSPORINE	
CYCLOSPORINE MODIFIED	
DACLIZUMAB	
EMAPALUMAB/LZSG	
ETANERCEPT	
EVEROLIMUS	
FINGOLIMOD HYDROCHLORIDE	
GOLD SODIUM THIOMALATE	
GOLIMUMAB	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
INEBILIZUMAB/CDON	
LEFLUNOMIDE	
LENALIDOMIDE	
LYMPHOCYTE IMMUNE GLOBULIN ANTI/THYMOCYTE G	
METHOTREXATE	
METHOTREXATE SODIUM	
METHOTREXATE/PF	
MUROMONAB CD3	
MYCOPHENOLATE MOFETIL	
MYCOPHENOLATE MOFETIL HCL	
MYCOPHENOLATE SODIUM	
RILONACEPT	
SARILUMAB SUBCUTANEOUS	
SATRALIZUMAB/MWGE	
SIROLIMUS	
TACROLIMUS	
THALIDOMIDE	
TOCILIZUMAB IV	
TOCILIZUMAB SUBCUTANEOUS	
TOFACITINIB CITRATE	
TOFACITINIB CITRATE ORAL	
UPADACITINIB	
VOCLOSPORIN	
Chemotherapy	
ABEMACICLIB	
ACALABRUTINIB	
ADO-TRASTUZUMAB EMTANSINE	
AFATINIB DIMALEATE	
ALDESLEUKIN	
ALECTINIB HCL	
ALEMTUZUMAB	
ALPELISIB	
ALTRETAMINE	
ARSENIC TRIOXIDE	
ASPARAGINASE	
ASPARAGINASE ERWINIA CHRYSANTHEMI	
ATEZOLIZUMAB	
AVAPRITINIB	
AVELUMAB	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
AXICABTAGENE CILOLEUCEL	
AXITINIB	
AZACITIDINE	
BELANTAMAB MAFODOTIN/BLMF	
BELINOSTAT	
BENDAMUSTINE HCL	
BEVACIZUMAB	
BEVACIZUMAB/AWWB	
BEVACIZUMAB/BVZR	
BEXAROTENE	
BINIMETINIB	
BLEOMYCIN SULF	
BLEOMYCIN SULFATE	
BLINATUMOMAB	
BORTEZOMIB	
BOSUTINIB	
BRENTUXIMAB VEDOTIN	
BREXUCABTAGENE AUTOLEUCEL	
BRIGATINIB	
BUSULFAN	
CABAZITAXEL	
CABOZANTINIB S-MALATE	
CALASPARGASE PEGOL/MKNL	
CAPECI	
CAPECITABINE	
CAPMATINIB HCL	
CARBOPLATIN	
CARFILZOMIB	
CARMUSTINE	
CARMUSTINE IN POLIFEPROSAN INTRACRANIAL IMPLANT WAFER	
CEMIPLIMAB-RWLC	
CERITINIB	
CETUXIMAB	
CHLORAMBUCIL	
CISPLATIN	
CLADRIBINE	
CLOFARABINE	
COBIMETINIB FUMARATE	
COPANLISIB HCL	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
CRIZOTINIB	
CYCLOPHOSPHAMIDE	
CYTARABINE	
CYTARABINE LIPOSOME	
DABRAFENIB MESYLATE	
DACARBAZINE	
DACOMITINIB	
DACTINOMYCIN	
DARATUMUMAB	
DARATUMUMAB/HYALURONIDASE/FIHJ	
DASATINIB	
DAUNORUBICIN CITRATE LIPOSOME	
DAUNORUBICIN HCL	
DAUNORUBICIN-CYTARABINE LIPOSOME	
DECI	
DECITABINE	
DENILEUKIN DIFTITOX	
DINUTUXIMAB	
DOCETAXEL	
DOXORUBICIN HCL	
DOXORUBICIN HCL LIPOSOMAL	
DURVALUMAB	
DUVELISIB	
ELOTUZUMAB	
ENASIDENIB MESYLATE	
ENCORAFENIB	
ENFORTUMAB VEDOTIN/EJFV	
ENTRECTINIB	
EPIRUBICIN HCL	
ERDAFITINIB	
ERIBULIN MESYLATE	
ERLOTINIB	
ERLOTINIB HCL	
ETOPOSIDE	
ETOPOSIDE PHOSPHATE	
EVEROLIMUS	
FAM/TRASTUZUMAB DERUXTECAN/NXKI	
FEDRATINIB HCL	
FLOXURIDINE	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
FLUDARABINE PHOSPHATE	
FLUOROURACIL	
FOSTAMATINIB DISODIUM	
GEFITINIB	
GEMCITABINE HCL	
GEMCITABINE HCL-NACL	
GEMTUZUMAB OZOGAMICIN	
GILTERITINIB FUMARATE	
GLASDEGIB MALEATE	
GLUCARPIDASE	
HYDROXYUREA	
IBRITUMOMAB TIUXETAN FOR INDIUM-111 (IN-111)	
IBRITUMOMAB TIUXETAN FOR YTTRIUM/90 (Y/90)	
IBRUTINIB	
IDARUBICIN HCL	
IDELALISIB	
IFOSFAMIDE	
IFOSFAMIDE/MESNA	
IMATINIB MESYLATE	
INOTUZUMAB OZOGAMICIN	
INTERFERON ALFA-2A	
INTERFERON ALFA-2B	
INTERFERON ALFA-N3	
INTERFERON GAMMA-1B	
IPILIMUMAB	
IRINOTECAN HCL	
IRINOTECAN HCL LIPOSOME	
ISATUXIMAB/IRFC	
IVOSIDENIB	
IXABEPILONE	
IXAZOMIB CITRATE	
LAPATINIB DITOSYLATE	
LAROTRECTINIB SULFATE	
LENVATINIB	
LISOCABTAGENE MARALEUCCEL	
LOMUSTINE	
LORLATINIB	
LURBINECTEDIN	
MECHLORETHAMINE HCL	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
MELPHALAN	
MELPHALAN HCL	
MERCAPTOPYRINE	
METHOTREXATE	
METHOTREXATE SODIUM	
METHOTREXATE SODIUM/PF	
METHOTREXATE/PF	
MIDOSTAURIN	
MITOMYCIN	
MITOXANTRONE	
MOGAMULIZUMAB-KPKC	
MOXETUMOMAB PASUDOTOX-TDFK	
NAXITAMAB/GQGK	
NECITUMUMAB	
NELARABINE	
NERATINIB MALEATE	
NILOTINIB	
NIRAPARIB TOSYLATE	
NIVOLUMAB	
OBINUTUZUMAB	
OFATUMUMAB	
OLAPARIB	
OLARATUMAB	
OMACETAXINE MEPESUCCINATE	
OSIMERTINIB MESYLATE	
OXALIPLATIN	
PACLITAXEL	
PALBOCICLIB	
PANITUMUMAB	
PANOBINOSTAT LACTATE	
PAZOPANIB HCL	
PEGASPARGASE	
PEGINTERFERON ALFA-2B	
PEMBROLIZUMAB	
PEMETREXED DISODIUM	
PEMIGATINIB	
PENTOSTATIN	
PERTUZUMAB	
PERTUZUMAB/TRASTUZ/HYALURON/ZZXF	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
PEXIDARTINIB HCL	
PLICAMYCIN	
POLATUZUMAB VEDOTIN-PIIQ	
POMALIDOMIDE	
PONATINIB HCL	
PRALATREXATE	
PRALSETINIB	
PROCARBAZINE HCL	
RAMUCIRUMAB	
REGORAFENIB	
RIBOCICLIB SUCCINATE	
RIBOCICLIB/LETROZOLE	
RIPRETINIB	
RITUXIMAB	
RITUXIMAB-HYALURONIDASE HUMAN	
RITUXIMAB/ABBS	
RITUXIMAB/ARRX	
RITUXIMAB/PVVR	
ROMIDEPSIN	
RUCAPARIB CAMSYLATE	
RUXOLITINIB PHOSPHATE	
SACITUZUMAB GOVITECAN/HZIY	
SELINEXOR	
SELPERCATINIB	
SELUMETINIB SULFATE	
SIPULEUCEL-T	
SONIDEGIB PHOSPHATE	
SORAFENIB TOSYLATE	
STREPTOZOCIN	
SUNITINIB MALATE	
TAFASITAMAB/CXIX	
TAGRAXOFUSP-ERZS	
TALAZOPARIB TOSYLATE	
TALIMOGENE LAHERPAREPVEC	
TAZEMETOSTAT HBR	
TEMOZOLOMIDE	
TEMSIROLIMUS	
TENIPOSIDE	
TEPOTINIB HCL	

Appendix E. List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Generic Name	Brand Name
THIOGUANINE	
THIOTEPA	
TISAGENLECLEUCEL-T	
TOPOTECAN HCL	
TOSITUMOMAB	
TRABECTEDIN	
TRAMETINIB DIMETHYL SULFOXIDE	
TRASTUZUMAB	
TRASTUZUMAB-HYALURONIDASE-OYSK	
TRASTUZUMAB/ANNS	
TRASTUZUMAB/DKST	
TRASTUZUMAB/DTTB	
TRASTUZUMAB/PKRB	
TRASTUZUMAB/QYYP	
TRIFLURIDINE-TIPIRACIL	
TRILACICLIB DIHYDROCHLORIDE	
TUCATINIB	
UMBRAISIB TOSYLATE	
URACIL MUSTARD	
VALRUBICIN	
VANDETANIB	
VEMURAFENIB	
VENETOCLAX	
VINBLASTINE SULFATE	
VINCRISTINE SULFATE	
VINCRISTINE SULFATE LIPOSOME	
VINORELBINE TARTRATE	
VISMODEGIB	
VORINOSTAT	
ZANUBRUTINIB	
ZIV-AFLIBERCEPT	

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Drugs Contraindicated for use with Nirmatrelvir/Ritonavir			
00068059701	Rifampin	Procedure	NDC
00068059901	Rifampin	Procedure	NDC
00069033801	Sildenafil (Pah)	Procedure	NDC
00069547101	Phenytoin	Procedure	NDC
00069547102	Phenytoin	Procedure	NDC
00069547401	Phenytoin	Procedure	NDC
00069547402	Phenytoin	Procedure	NDC
00069600102	Phenytoin	Procedure	NDC
00069600110	Phenytoin	Procedure	NDC
00069600121	Phenytoin	Procedure	NDC
00069600125	Phenytoin	Procedure	NDC
00143927301	Dihydroergotamine	Procedure	NDC
00143927310	Dihydroergotamine	Procedure	NDC
00143970310	Phenytoin	Procedure	NDC
00143970425	Phenytoin	Procedure	NDC
00143987501	Amiodarone	Procedure	NDC
00143987525	Amiodarone	Procedure	NDC
00409131702	Phenytoin	Procedure	NDC
00409184432	Phenytoin	Procedure	NDC
00409485702	Phenytoin	Procedure	NDC
00409485710	Phenytoin	Procedure	NDC
00409485749	Phenytoin	Procedure	NDC
00409485750	Phenytoin	Procedure	NDC
00517074001	Methylergonovine	Procedure	NDC
00517074020	Methylergonovine	Procedure	NDC
00517690201	Phenytoin	Procedure	NDC
00517690225	Phenytoin	Procedure	NDC
00574085005	Dihydroergotamine	Procedure	NDC
00574085010	Dihydroergotamine	Procedure	NDC
00574085105	Dihydroergotamine	Procedure	NDC
00641047621	Phenobarbital	Procedure	NDC
00641047625	Phenobarbital	Procedure	NDC
00641047721	Phenobarbital	Procedure	NDC
00641047725	Phenobarbital	Procedure	NDC
00641049321	Phenytoin	Procedure	NDC
00641049325	Phenytoin	Procedure	NDC
00641255541	Phenytoin	Procedure	NDC
00641255545	Phenytoin	Procedure	NDC
00641613601	Phenytoin	Procedure	NDC
00641613625	Phenytoin	Procedure	NDC
00641613701	Phenytoin	Procedure	NDC
00641613710	Phenytoin	Procedure	NDC
00641613801	Phenytoin	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00641613825	Phenytoin	Procedure	NDC
00641613901	Phenytoin	Procedure	NDC
00641613925	Phenytoin	Procedure	NDC
23155034031	Rifampin	Procedure	NDC
25021030266	Amiodarone	Procedure	NDC
42192061402	Phenytoin	Procedure	NDC
42192061405	Phenytoin	Procedure	NDC
42192061410	Phenytoin	Procedure	NDC
42192061430	Phenytoin	Procedure	NDC
42494041501	Phenobarbital	Procedure	NDC
42494041503	Phenobarbital	Procedure	NDC
42494041525	Phenobarbital	Procedure	NDC
42494041601	Phenobarbital	Procedure	NDC
42494041603	Phenobarbital	Procedure	NDC
42494041625	Phenobarbital	Procedure	NDC
43066015010	Amiodarone	Procedure	NDC
43066036020	Amiodarone	Procedure	NDC
51991014417	Methylergonovine	Procedure	NDC
51991014499	Methylergonovine	Procedure	NDC
54288013601	Phenobarbital	Procedure	NDC
54288013610	Phenobarbital	Procedure	NDC
54288013701	Phenobarbital	Procedure	NDC
54288013710	Phenobarbital	Procedure	NDC
55150016613	Sildenafil (Pah)	Procedure	NDC
55150018003	Amiodarone	Procedure	NDC
55150018109	Amiodarone	Procedure	NDC
55150018218	Amiodarone	Procedure	NDC
55390012301	Rifampin	Procedure	NDC
61990041100	Dihydroergotamine	Procedure	NDC
61990041101	Dihydroergotamine	Procedure	NDC
61990041102	Dihydroergotamine	Procedure	NDC
63323035120	Rifampin	Procedure	NDC
63323040301	Phenytoin	Procedure	NDC
63323040302	Phenytoin	Procedure	NDC
63323040304	Phenytoin	Procedure	NDC
63323040310	Phenytoin	Procedure	NDC
63323061601	Amiodarone	Procedure	NDC
63323061602	Amiodarone	Procedure	NDC
63323061603	Amiodarone	Procedure	NDC
63323061609	Amiodarone	Procedure	NDC
63629199701	Phenobarbital	Procedure	NDC
63629199801	Phenobarbital	Procedure	NDC
63629200701	Phenobarbital	Procedure	NDC
63629200801	Phenobarbital	Procedure	NDC

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Code	Description	Code Category	Code Type
63704000401	Methylergonovine	Procedure	NDC
64679072901	Phenytoin	Procedure	NDC
64679072902	Phenytoin	Procedure	NDC
64679073001	Phenytoin	Procedure	NDC
64679073002	Phenytoin	Procedure	NDC
66490004101	Dihydroergotamine	Procedure	NDC
67457015300	Amiodarone	Procedure	NDC
67457015303	Amiodarone	Procedure	NDC
67457015309	Amiodarone	Procedure	NDC
67457015318	Amiodarone	Procedure	NDC
67457015399	Amiodarone	Procedure	NDC
67457044560	Rifampin	Procedure	NDC
67457051600	Phenytoin	Procedure	NDC
67457051622	Phenytoin	Procedure	NDC
67457051625	Phenytoin	Procedure	NDC
67457051700	Phenytoin	Procedure	NDC
67457051701	Phenytoin	Procedure	NDC
67457051710	Phenytoin	Procedure	NDC
70092100236	Amiodarone	Procedure	NDC
70092100437	Amiodarone	Procedure	NDC
70092100538	Amiodarone	Procedure	NDC
70121138101	Phenytoin	Procedure	NDC
70121138105	Phenytoin	Procedure	NDC
70121139001	Phenytoin	Procedure	NDC
70121139007	Phenytoin	Procedure	NDC
81284041100	Dihydroergotamine	Procedure	NDC
81284041110	Dihydroergotamine	Procedure	NDC
J0282	Injection, amiodarone HCl, 30 mg	Procedure	HCPCS
J1110	Injection, dihydroergotamine mesylate, per 1 mg	Procedure	HCPCS
J1165	Injection, phenytoin sodium, per 50 mg	Procedure	HCPCS
J2210	Injection, methylergonovine maleate, up to 0.2 mg	Procedure	HCPCS
J2560	Injection, phenobarbital sodium, up to 120 mg	Procedure	HCPCS
Q2009	INJECTION, FOSPHENYTOIN, 50 MG	Procedure	HCPCS
S0078	Injection, fosphenytoin sodium, 750 mg	Procedure	HCPCS
S0090	Sildenafil citrate, 25 mg	Procedure	HCPCS
Drugs to be avoided with Nirmatrelvir/Ritonavir			
00008117901	temsirolimus	Procedure	NDC
00049319001	voriconazole	Procedure	NDC
00049319028	voriconazole	Procedure	NDC
00049319038	voriconazole	Procedure	NDC
00049419001	voriconazole	Procedure	NDC
00781341694	voriconazole	Procedure	NDC
16729022130	temsirolimus	Procedure	NDC
16729022361	temsirolimus	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
39822107701	voriconazole	Procedure	NDC
47781046671	voriconazole	Procedure	NDC
65219019030	voriconazole	Procedure	NDC
65219020005	temsirolimus	Procedure	NDC
65219020505	temsirolimus	Procedure	NDC
70436002980	voriconazole	Procedure	NDC
72266013101	voriconazole	Procedure	NDC
72611078001	temsirolimus	Procedure	NDC
72611078502	temsirolimus	Procedure	NDC
80195	Sirolimus	Procedure	CPT-4
80285	Voriconazole	Procedure	CPT-4
80803015350	sirolimus protein-bound	Procedure	NDC
C9020	Sirolimus tablet, 1 mg	Procedure	HCPCS
C9091	Injection, sirolimus protein-bound particles, 1 mg	Procedure	HCPCS
C9106	Sirolimus, per 1 mg/ml	Procedure	HCPCS
C9239	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J3465	Injection, voriconazole, 10 mg	Procedure	HCPCS
J7520	Sirolimus, oral, 1 mg	Procedure	HCPCS
J7527	Everolimus, oral, 0. 25 mg	Procedure	HCPCS
J9330	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9331	Injection, sirolimus protein-bound particles, 1 mg	Procedure	HCPCS
Other Drug Drug Interactor			
00003029305	triamcinolone acetoneide	Procedure	NDC
00003029320	triamcinolone acetoneide	Procedure	NDC
00003029328	triamcinolone acetoneide	Procedure	NDC
00003031505	triamcinolone acetoneide	Procedure	NDC
00003031520	triamcinolone acetoneide	Procedure	NDC
00003049420	triamcinolone acetoneide	Procedure	NDC
00009000302	methylprednisolone sodium succinate/PF	Procedure	NDC
00009001820	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003905	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003906	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003928	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003930	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003932	methylprednisolone sodium succinate/PF	Procedure	NDC
00009003933	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004703	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004704	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004722	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004725	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004726	methylprednisolone sodium succinate/PF	Procedure	NDC
00009004727	methylprednisolone sodium succinate/PF	Procedure	NDC
00009027401	methylprednisolone acetate	Procedure	NDC
00009028002	methylprednisolone acetate	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00009028003	methylprednisolone acetate	Procedure	NDC
00009028051	methylprednisolone acetate	Procedure	NDC
00009028052	methylprednisolone acetate	Procedure	NDC
00009030602	methylprednisolone acetate	Procedure	NDC
00009030612	methylprednisolone acetate	Procedure	NDC
00009069801	methylprednisolone sodium succinate	Procedure	NDC
00009069802	methylprednisolone sodium succinate	Procedure	NDC
00009075801	methylprednisolone sodium succinate	Procedure	NDC
00009085001	methylprednisolone sodium succinate	Procedure	NDC
00009307301	methylprednisolone acetate	Procedure	NDC
00009307303	methylprednisolone acetate	Procedure	NDC
00009307322	methylprednisolone acetate	Procedure	NDC
00009307323	methylprednisolone acetate	Procedure	NDC
00009347501	methylprednisolone acetate	Procedure	NDC
00009347503	methylprednisolone acetate	Procedure	NDC
00009347522	methylprednisolone acetate	Procedure	NDC
00009347523	methylprednisolone acetate	Procedure	NDC
00078010901	cyclosporine	Procedure	NDC
00078010961	cyclosporine	Procedure	NDC
00085432001	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
00143954201	nicardipine HCl	Procedure	NDC
00143954210	nicardipine HCl	Procedure	NDC
00143957501	lidocaine HCl	Procedure	NDC
00143957510	lidocaine HCl	Procedure	NDC
00143957701	lidocaine HCl	Procedure	NDC
00143957710	lidocaine HCl	Procedure	NDC
00143959301	nicardipine HCl	Procedure	NDC
00143959310	nicardipine HCl	Procedure	NDC
00143959401	lidocaine HCl/PF	Procedure	NDC
00143959425	lidocaine HCl/PF	Procedure	NDC
00143959501	lidocaine HCl/PF	Procedure	NDC
00143959525	lidocaine HCl/PF	Procedure	NDC
00143963301	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
00143963310	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
00143963401	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
00143963410	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
00143968901	nicardipine HCl	Procedure	NDC
00143968910	nicardipine HCl	Procedure	NDC
00143985001	methylprednisolone sodium succinate	Procedure	NDC
00143985101	methylprednisolone sodium succinate	Procedure	NDC
00264937688	lidocaine HCl/PF	Procedure	NDC
00264959410	lidocaine HCl in dextrose 5% in water/PF	Procedure	NDC
00264959420	lidocaine HCl in dextrose 5% in water/PF	Procedure	NDC
00264959820	lidocaine HCl in dextrose 5% in water/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
00338040903	lidocaine HCl in dextrose 5% in water/PF	Procedure	NDC
00338041102	lidocaine HCl in dextrose 5% in water/PF	Procedure	NDC
00362026205	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
00362089805	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
00404650015	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
00404651205	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
00409114401	verapamil HCl	Procedure	NDC
00409114402	verapamil HCl	Procedure	NDC
00409114405	verapamil HCl	Procedure	NDC
00409114410	verapamil HCl	Procedure	NDC
00409114411	verapamil HCl	Procedure	NDC
00409114462	verapamil HCl	Procedure	NDC
00409114465	verapamil HCl	Procedure	NDC
00409117101	diltiazem HCl	Procedure	NDC
00409117102	diltiazem HCl	Procedure	NDC
00409117111	diltiazem HCl	Procedure	NDC
00409117112	diltiazem HCl	Procedure	NDC
00409117603	meperidine HCl/PF	Procedure	NDC
00409117630	meperidine HCl/PF	Procedure	NDC
00409117803	meperidine HCl/PF	Procedure	NDC
00409117830	meperidine HCl/PF	Procedure	NDC
00409117903	meperidine HCl/PF	Procedure	NDC
00409117930	meperidine HCl/PF	Procedure	NDC
00409118059	meperidine HCl/PF	Procedure	NDC
00409118069	meperidine HCl/PF	Procedure	NDC
00409118130	meperidine HCl	Procedure	NDC
00409120120	meperidine HCl	Procedure	NDC
00409120301	meperidine HCl/PF	Procedure	NDC
00409120311	meperidine HCl/PF	Procedure	NDC
00409120901	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409120910	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409120965	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409120970	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409125301	meperidine HCl/PF	Procedure	NDC
00409125311	meperidine HCl/PF	Procedure	NDC
00409125401	meperidine HCl/PF	Procedure	NDC
00409125411	meperidine HCl/PF	Procedure	NDC
00409125502	meperidine HCl/PF	Procedure	NDC
00409125512	meperidine HCl/PF	Procedure	NDC
00409125601	meperidine HCl/PF	Procedure	NDC
00409125611	meperidine HCl/PF	Procedure	NDC
00409127303	diazepam	Procedure	NDC
00409127332	diazepam	Procedure	NDC
00409127603	fentanyl citrate/PF	Procedure	NDC

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Code	Description	Code Category	Code Type
00409127632	fentanyl citrate/PF	Procedure	NDC
00409132305	lidocaine HCl/PF	Procedure	NDC
00409132315	lidocaine HCl/PF	Procedure	NDC
00409136201	meperidine HCl/PF	Procedure	NDC
00409136211	meperidine HCl/PF	Procedure	NDC
00409141801	meperidine HCl/PF	Procedure	NDC
00409141811	meperidine HCl/PF	Procedure	NDC
00409206605	lidocaine HCl/PF	Procedure	NDC
00409206610	lidocaine HCl/PF	Procedure	NDC
00409216931	digoxin	Procedure	NDC
00409230504	midazolam HCl/PF	Procedure	NDC
00409230505	midazolam HCl/PF	Procedure	NDC
00409230516	midazolam HCl/PF	Procedure	NDC
00409230517	midazolam HCl/PF	Procedure	NDC
00409230550	midazolam HCl/PF	Procedure	NDC
00409230555	midazolam HCl/PF	Procedure	NDC
00409230561	midazolam HCl/PF	Procedure	NDC
00409230603	midazolam HCl/PF	Procedure	NDC
00409230622	midazolam HCl/PF	Procedure	NDC
00409230662	midazolam HCl/PF	Procedure	NDC
00409230703	midazolam HCl/PF	Procedure	NDC
00409230721	midazolam HCl/PF	Procedure	NDC
00409230760	midazolam HCl/PF	Procedure	NDC
00409230801	midazolam HCl/PF	Procedure	NDC
00409230802	midazolam HCl/PF	Procedure	NDC
00409230821	midazolam HCl/PF	Procedure	NDC
00409230822	midazolam HCl/PF	Procedure	NDC
00409230849	midazolam HCl/PF	Procedure	NDC
00409230850	midazolam HCl/PF	Procedure	NDC
00409230869	midazolam HCl/PF	Procedure	NDC
00409230870	midazolam HCl/PF	Procedure	NDC
00409258704	midazolam HCl	Procedure	NDC
00409258705	midazolam HCl	Procedure	NDC
00409258753	midazolam HCl	Procedure	NDC
00409259603	midazolam HCl	Procedure	NDC
00409259605	midazolam HCl	Procedure	NDC
00409259613	midazolam HCl	Procedure	NDC
00409259615	midazolam HCl	Procedure	NDC
00409317701	lidocaine HCl/epinephrine	Procedure	NDC
00409317716	lidocaine HCl/epinephrine	Procedure	NDC
00409317801	lidocaine HCl/epinephrine	Procedure	NDC
00409317802	lidocaine HCl/epinephrine	Procedure	NDC
00409317803	lidocaine HCl/epinephrine	Procedure	NDC
00409317816	lidocaine HCl/epinephrine	Procedure	NDC

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Code	Description	Code Category	Code Type
00409317817	lidocaine HCl/epinephrine	Procedure	NDC
00409317818	lidocaine HCl/epinephrine	Procedure	NDC
00409318101	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409318111	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409318201	lidocaine HCl/epinephrine	Procedure	NDC
00409318202	lidocaine HCl/epinephrine	Procedure	NDC
00409318203	lidocaine HCl/epinephrine	Procedure	NDC
00409318211	lidocaine HCl/epinephrine	Procedure	NDC
00409318221	lidocaine HCl/epinephrine	Procedure	NDC
00409318231	lidocaine HCl/epinephrine	Procedure	NDC
00409318301	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409318311	lidocaine HCl/epinephrine/PF	Procedure	NDC
00409321311	diazepam	Procedure	NDC
00409321312	diazepam	Procedure	NDC
00409401101	verapamil HCl	Procedure	NDC
00409401161	verapamil HCl	Procedure	NDC
00409427501	lidocaine HCl	Procedure	NDC
00409427516	lidocaine HCl	Procedure	NDC
00409427601	lidocaine HCl	Procedure	NDC
00409427602	lidocaine HCl	Procedure	NDC
00409427616	lidocaine HCl	Procedure	NDC
00409427617	lidocaine HCl	Procedure	NDC
00409427701	lidocaine HCl	Procedure	NDC
00409427702	lidocaine HCl	Procedure	NDC
00409427716	lidocaine HCl	Procedure	NDC
00409427717	lidocaine HCl	Procedure	NDC
00409427801	lidocaine HCl/PF	Procedure	NDC
00409427816	lidocaine HCl/PF	Procedure	NDC
00409427902	lidocaine HCl/PF	Procedure	NDC
00409427916	lidocaine HCl/PF	Procedure	NDC
00409428201	lidocaine HCl/PF	Procedure	NDC
00409428202	lidocaine HCl/PF	Procedure	NDC
00409428211	lidocaine HCl/PF	Procedure	NDC
00409428212	lidocaine HCl/PF	Procedure	NDC
00409428301	lidocaine HCl/PF	Procedure	NDC
00409428311	lidocaine HCl/PF	Procedure	NDC
00409428325	lidocaine HCl/PF	Procedure	NDC
00409435003	diltiazem HCl	Procedure	NDC
00409435013	diltiazem HCl	Procedure	NDC
00409471302	lidocaine HCl/PF	Procedure	NDC
00409471312	lidocaine HCl/PF	Procedure	NDC
00409471325	lidocaine HCl/PF	Procedure	NDC
00409471332	lidocaine HCl/PF	Procedure	NDC
00409471342	lidocaine HCl/PF	Procedure	NDC

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Code	Description	Code Category	Code Type
00409471362	lidocaine HCl/PF	Procedure	NDC
00409471365	lidocaine HCl/PF	Procedure	NDC
00409471375	lidocaine HCl/PF	Procedure	NDC
00409477601	lidocaine HCl/PF	Procedure	NDC
00409477610	lidocaine HCl/PF	Procedure	NDC
00409490311	lidocaine HCl/PF	Procedure	NDC
00409490334	lidocaine HCl/PF	Procedure	NDC
00409490411	lidocaine HCl/PF	Procedure	NDC
00409490434	lidocaine HCl/PF	Procedure	NDC
00409603004	meperidine HCl	Procedure	NDC
00409647644	erythromycin lactobionate	Procedure	NDC
00409647654	erythromycin lactobionate	Procedure	NDC
00409647844	erythromycin lactobionate	Procedure	NDC
00409648201	erythromycin lactobionate	Procedure	NDC
00409648211	erythromycin lactobionate	Procedure	NDC
00409726301	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
00409909309	fentanyl citrate/PF	Procedure	NDC
00409909311	fentanyl citrate/PF	Procedure	NDC
00409909332	fentanyl citrate/PF	Procedure	NDC
00409909335	fentanyl citrate/PF	Procedure	NDC
00409909337	fentanyl citrate/PF	Procedure	NDC
00409909345	fentanyl citrate/PF	Procedure	NDC
00409909412	fentanyl citrate/PF	Procedure	NDC
00409909416	fentanyl citrate/PF	Procedure	NDC
00409909417	fentanyl citrate/PF	Procedure	NDC
00409909418	fentanyl citrate/PF	Procedure	NDC
00409909422	fentanyl citrate/PF	Procedure	NDC
00409909425	fentanyl citrate/PF	Procedure	NDC
00409909428	fentanyl citrate/PF	Procedure	NDC
00409909431	fentanyl citrate/PF	Procedure	NDC
00409909441	fentanyl citrate/PF	Procedure	NDC
00409909461	fentanyl citrate/PF	Procedure	NDC
00409913705	lidocaine HCl/PF	Procedure	NDC
00409913711	lidocaine HCl/PF	Procedure	NDC
00409963305	verapamil HCl	Procedure	NDC
00409963365	verapamil HCl	Procedure	NDC
00469042099	isavuconazonium sulfate	Procedure	NDC
00469301601	tacrolimus	Procedure	NDC
00517072001	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
00517073501	nicardipine HCl	Procedure	NDC
00517073510	nicardipine HCl	Procedure	NDC
00517079101	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
00517079901	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
00517086601	cyclosporine	Procedure	NDC

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Code	Description	Code Category	Code Type
00517086610	cyclosporine	Procedure	NDC
00574086601	cyclosporine	Procedure	NDC
00574086610	cyclosporine	Procedure	NDC
00641036721	dexamethasone sodium phosphate	Procedure	NDC
00641036725	dexamethasone sodium phosphate	Procedure	NDC
00641141031	digoxin	Procedure	NDC
00641141035	digoxin	Procedure	NDC
00641601301	diltiazem HCl	Procedure	NDC
00641601310	diltiazem HCl	Procedure	NDC
00641601401	diltiazem HCl	Procedure	NDC
00641601410	diltiazem HCl	Procedure	NDC
00641601501	diltiazem HCl	Procedure	NDC
00641601510	diltiazem HCl	Procedure	NDC
00641602701	fentanyl citrate/PF	Procedure	NDC
00641602725	fentanyl citrate/PF	Procedure	NDC
00641602801	fentanyl citrate/PF	Procedure	NDC
00641602825	fentanyl citrate/PF	Procedure	NDC
00641602901	fentanyl citrate/PF	Procedure	NDC
00641602925	fentanyl citrate/PF	Procedure	NDC
00641603001	fentanyl citrate/PF	Procedure	NDC
00641605201	meperidine HCl/PF	Procedure	NDC
00641605225	meperidine HCl/PF	Procedure	NDC
00641605301	meperidine HCl/PF	Procedure	NDC
00641605325	meperidine HCl/PF	Procedure	NDC
00641605401	meperidine HCl/PF	Procedure	NDC
00641605425	meperidine HCl/PF	Procedure	NDC
00641605601	midazolam HCl	Procedure	NDC
00641605610	midazolam HCl	Procedure	NDC
00641605701	midazolam HCl	Procedure	NDC
00641605710	midazolam HCl	Procedure	NDC
00641605725	midazolam HCl	Procedure	NDC
00641605901	midazolam HCl	Procedure	NDC
00641605910	midazolam HCl	Procedure	NDC
00641606001	midazolam HCl	Procedure	NDC
00641606010	midazolam HCl	Procedure	NDC
00641606101	midazolam HCl	Procedure	NDC
00641606110	midazolam HCl	Procedure	NDC
00641606125	midazolam HCl	Procedure	NDC
00641606301	midazolam HCl	Procedure	NDC
00641606310	midazolam HCl	Procedure	NDC
00641606325	midazolam HCl	Procedure	NDC
00641614501	dexamethasone sodium phosphate	Procedure	NDC
00641614525	dexamethasone sodium phosphate	Procedure	NDC
00641614601	dexamethasone sodium phosphate	Procedure	NDC

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Code	Description	Code Category	Code Type
00641614625	dexamethasone sodium phosphate	Procedure	NDC
00641618401	digoxin	Procedure	NDC
00641618425	digoxin	Procedure	NDC
00641620901	midazolam HCl	Procedure	NDC
00641620925	midazolam HCl	Procedure	NDC
00641621001	midazolam HCl	Procedure	NDC
00641621010	midazolam HCl	Procedure	NDC
00641621101	midazolam HCl	Procedure	NDC
00641621110	midazolam HCl	Procedure	NDC
00641624401	diazepam	Procedure	NDC
00641624410	diazepam	Procedure	NDC
00641624701	fentanyl citrate/PF	Procedure	NDC
00641624725	fentanyl citrate/PF	Procedure	NDC
00641921701	diltiazem HCl	Procedure	NDC
00641921710	diltiazem HCl	Procedure	NDC
00641921801	diltiazem HCl	Procedure	NDC
00641921810	diltiazem HCl	Procedure	NDC
00641921901	diltiazem HCl	Procedure	NDC
00641921910	diltiazem HCl	Procedure	NDC
00703003101	methylprednisolone acetate	Procedure	NDC
00703003104	methylprednisolone acetate	Procedure	NDC
00703004301	methylprednisolone acetate	Procedure	NDC
00703004501	methylprednisolone acetate	Procedure	NDC
00703005101	methylprednisolone acetate	Procedure	NDC
00703005104	methylprednisolone acetate	Procedure	NDC
00703006301	methylprednisolone acetate	Procedure	NDC
00703024101	triamcinolone acetonide	Procedure	NDC
00703024301	triamcinolone acetonide	Procedure	NDC
00703024501	triamcinolone acetonide	Procedure	NDC
00703440211	vincristine sulfate	Procedure	NDC
00703441211	vincristine sulfate	Procedure	NDC
00781305972	digoxin	Procedure	NDC
00781305995	digoxin	Procedure	NDC
00781308475	triamcinolone hexacetonide	Procedure	NDC
00781308575	triamcinolone hexacetonide	Procedure	NDC
10122031301	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
10122031310	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
10122031401	nicardipine in dextrose, iso-osmotic	Procedure	NDC
10122031410	nicardipine in dextrose, iso-osmotic	Procedure	NDC
10122032501	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
10122032510	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
11704060001	diazepam	Procedure	NDC
14789011605	erythromycin lactobionate	Procedure	NDC
14789011607	erythromycin lactobionate	Procedure	NDC

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Code	Description	Code Category	Code Type
16714008801	methylprednisolone acetate	Procedure	NDC
16714008825	methylprednisolone acetate	Procedure	NDC
16714008901	methylprednisolone acetate	Procedure	NDC
16714009001	methylprednisolone acetate	Procedure	NDC
16714013001	triamcinolone acetonide	Procedure	NDC
16714013025	triamcinolone acetonide	Procedure	NDC
16714014001	triamcinolone acetonide	Procedure	NDC
16714015001	triamcinolone acetonide	Procedure	NDC
16714047201	methylprednisolone acetate	Procedure	NDC
16714047225	methylprednisolone acetate	Procedure	NDC
16714047301	methylprednisolone acetate	Procedure	NDC
17478003002	fentanyl citrate/PF	Procedure	NDC
17478003005	fentanyl citrate/PF	Procedure	NDC
17478003025	fentanyl citrate/PF	Procedure	NDC
17478003055	fentanyl citrate/PF	Procedure	NDC
17478038020	methadone HCl	Procedure	NDC
17478052410	midazolam HCl	Procedure	NDC
17478093705	diltiazem HCl	Procedure	NDC
17478093710	diltiazem HCl	Procedure	NDC
17478093725	diltiazem HCl	Procedure	NDC
17478093726	diltiazem HCl	Procedure	NDC
23155060031	midazolam HCl	Procedure	NDC
23155060041	midazolam HCl	Procedure	NDC
23155060131	midazolam HCl	Procedure	NDC
23155060132	midazolam HCl	Procedure	NDC
23155060141	midazolam HCl	Procedure	NDC
23155060142	midazolam HCl	Procedure	NDC
25021031202	verapamil HCl	Procedure	NDC
25021031204	verapamil HCl	Procedure	NDC
25021080705	methylprednisolone sodium succinate	Procedure	NDC
25021080810	methylprednisolone sodium succinate	Procedure	NDC
25021081030	methylprednisolone sodium succinate	Procedure	NDC
25021082005	methylprednisolone acetate	Procedure	NDC
25021082010	methylprednisolone acetate	Procedure	NDC
25021082105	methylprednisolone acetate	Procedure	NDC
31382089805	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
4012F	WARFARIN THERAPY PRESCRIBED1	Procedure	HCPCS
4012F	Warfarin therapy prescribed (NMA-No Measure Associated)	Procedure	CPT-2
41616088240	nicardipine HCl	Procedure	NDC
41616088244	nicardipine HCl	Procedure	NDC
4189F	Appropriate digoxin therapeutic monitoring test ordered or performed (AM)	Procedure	CPT-2
42023024001	methylprednisolone acetate	Procedure	NDC
4220F	Digoxin medication therapy for 6 months or more (MM)	Procedure	CPT-2
42571031375	verapamil HCl	Procedure	NDC

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Code	Description	Code Category	Code Type
42571031386	verapamil HCl	Procedure	NDC
42571031387	verapamil HCl	Procedure	NDC
42571031396	verapamil HCl	Procedure	NDC
42571031397	verapamil HCl	Procedure	NDC
43066000910	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066001610	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066002110	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066002410	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066002610	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066002810	nicardipine in sodium chloride, iso-osmotic	Procedure	NDC
43066003101	verapamil HCl	Procedure	NDC
43066003125	verapamil HCl	Procedure	NDC
43066003501	verapamil HCl	Procedure	NDC
43066003505	verapamil HCl	Procedure	NDC
43128010515	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
43598012725	methylprednisolone sodium succinate	Procedure	NDC
43598012745	methylprednisolone sodium succinate	Procedure	NDC
43598012811	methylprednisolone sodium succinate	Procedure	NDC
43598012901	methylprednisolone sodium succinate	Procedure	NDC
43598012925	methylprednisolone sodium succinate	Procedure	NDC
43598013074	methylprednisolone sodium succinate	Procedure	NDC
44567061001	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
44567061010	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
44567061101	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
44567061110	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
45861013301	dexamethasone sodium phosphate/PF	Procedure	NDC
47335088240	nicardipine HCl	Procedure	NDC
47335088244	nicardipine HCl	Procedure	NDC
47781058846	midazolam HCl	Procedure	NDC
47781058868	midazolam HCl	Procedure	NDC
47781058922	midazolam HCl	Procedure	NDC
47781058991	midazolam HCl	Procedure	NDC
49702021301	zidovudine	Procedure	NDC
49702021326	zidovudine	Procedure	NDC
49836000318	lidocaine HCl/PF	Procedure	NDC
49836000617	triamcinolone acetoneide	Procedure	NDC
49836000818	triamcinolone acetoneide	Procedure	NDC
49836001117	methylprednisolone acetate	Procedure	NDC
49836001418	methylprednisolone acetate	Procedure	NDC
49836001623	lidocaine HCl/epinephrine/PF	Procedure	NDC
49836001817	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
49836002117	triamcinolone acetoneide	Procedure	NDC
50090236000	triamcinolone acetoneide	Procedure	NDC
50090589400	methylprednisolone acetate	Procedure	NDC

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Code	Description	Code Category	Code Type
50102040001	lidocaine HCl	Procedure	NDC
50102040010	lidocaine HCl	Procedure	NDC
50227102005	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
50227103005	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
50633012011	digoxin immune fab	Procedure	NDC
50633012111	digoxin immune fab	Procedure	NDC
51754020301	verapamil HCl	Procedure	NDC
51754020302	verapamil HCl	Procedure	NDC
51754020304	verapamil HCl	Procedure	NDC
51754020401	verapamil HCl	Procedure	NDC
51754020404	verapamil HCl	Procedure	NDC
51754020501	verapamil HCl	Procedure	NDC
51754020502	verapamil HCl	Procedure	NDC
51754506001	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
51754913101	midazolam in sodium chloride, iso-osmotic/PF	Procedure	NDC
51754913105	midazolam in sodium chloride, iso-osmotic/PF	Procedure	NDC
53225360001	lidocaine HCl/PF	Procedure	NDC
53225366001	dexamethasone sodium phosphate	Procedure	NDC
53225366501	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
53225380001	lidocaine HCl/PF	Procedure	NDC
55150015872	lidocaine HCl/PF	Procedure	NDC
55150015974	lidocaine HCl/PF	Procedure	NDC
55150016072	lidocaine HCl/PF	Procedure	NDC
55150016102	lidocaine HCl/PF	Procedure	NDC
55150016205	lidocaine HCl/PF	Procedure	NDC
55150016330	lidocaine HCl/PF	Procedure	NDC
55150016402	lidocaine HCl/PF	Procedure	NDC
55150016505	lidocaine HCl/PF	Procedure	NDC
55150018301	nicardipine HCl	Procedure	NDC
55150018302	nicardipine HCl	Procedure	NDC
55150018310	nicardipine HCl	Procedure	NDC
55150018311	nicardipine HCl	Procedure	NDC
55150023701	dexamethasone sodium phosphate	Procedure	NDC
55150023805	dexamethasone sodium phosphate	Procedure	NDC
55150023930	dexamethasone sodium phosphate	Procedure	NDC
55150025110	lidocaine HCl	Procedure	NDC
55150025220	lidocaine HCl	Procedure	NDC
55150025350	lidocaine HCl	Procedure	NDC
55150025410	lidocaine HCl	Procedure	NDC
55150025520	lidocaine HCl	Procedure	NDC
55150025650	lidocaine HCl	Procedure	NDC
55150030401	dexamethasone sodium phosphate/PF	Procedure	NDC
55150030425	dexamethasone sodium phosphate/PF	Procedure	NDC
55150030501	dexamethasone sodium phosphate	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
55150030510	dexamethasone sodium phosphate	Procedure	NDC
55150034201	verapamil HCl	Procedure	NDC
55150034225	verapamil HCl	Procedure	NDC
55150034301	verapamil HCl	Procedure	NDC
55150034305	verapamil HCl	Procedure	NDC
55154394005	methylprednisolone sodium succinate/PF	Procedure	NDC
55154394105	methylprednisolone sodium succinate/PF	Procedure	NDC
55154707505	dexamethasone sodium phosphate	Procedure	NDC
55154936405	dexamethasone sodium phosphate	Procedure	NDC
55390012510	midazolam HCl	Procedure	NDC
55390012605	midazolam HCl	Procedure	NDC
55390012610	midazolam HCl	Procedure	NDC
55390013702	midazolam HCl/PF	Procedure	NDC
55390013705	midazolam HCl/PF	Procedure	NDC
55390013801	midazolam HCl/PF	Procedure	NDC
55390013802	midazolam HCl/PF	Procedure	NDC
55390056505	diltiazem HCl	Procedure	NDC
55390056510	diltiazem HCl	Procedure	NDC
55390056530	diltiazem HCl	Procedure	NDC
57664063340	midazolam HCl	Procedure	NDC
57664063343	midazolam HCl	Procedure	NDC
57664063444	midazolam HCl	Procedure	NDC
57664063445	midazolam HCl	Procedure	NDC
59137057001	triamcinolone hexacetonide	Procedure	NDC
60219157301	methylprednisolone acetate	Procedure	NDC
60219157305	methylprednisolone acetate	Procedure	NDC
60219157401	methylprednisolone acetate	Procedure	NDC
60219157405	methylprednisolone acetate	Procedure	NDC
61703030906	vincristine sulfate	Procedure	NDC
61703030916	vincristine sulfate	Procedure	NDC
61703030925	vincristine sulfate	Procedure	NDC
61703030926	vincristine sulfate	Procedure	NDC
63323016501	dexamethasone sodium phosphate	Procedure	NDC
63323016502	dexamethasone sodium phosphate	Procedure	NDC
63323016503	dexamethasone sodium phosphate	Procedure	NDC
63323016505	dexamethasone sodium phosphate	Procedure	NDC
63323016516	dexamethasone sodium phosphate	Procedure	NDC
63323016526	dexamethasone sodium phosphate	Procedure	NDC
63323016530	dexamethasone sodium phosphate	Procedure	NDC
63323020102	lidocaine HCl	Procedure	NDC
63323020110	lidocaine HCl	Procedure	NDC
63323020202	lidocaine HCl	Procedure	NDC
63323020805	lidocaine HCl/PF	Procedure	NDC
63323025503	methylprednisolone sodium succinate	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
63323025803	methylprednisolone sodium succinate	Procedure	NDC
63323026530	methylprednisolone sodium succinate	Procedure	NDC
63323027810	vinblastine sulfate	Procedure	NDC
63323041110	midazolam HCl	Procedure	NDC
63323041112	midazolam HCl	Procedure	NDC
63323041113	midazolam HCl	Procedure	NDC
63323041115	midazolam HCl	Procedure	NDC
63323041118	midazolam HCl	Procedure	NDC
63323041125	midazolam HCl	Procedure	NDC
63323041202	midazolam HCl	Procedure	NDC
63323041203	midazolam HCl	Procedure	NDC
63323041205	midazolam HCl	Procedure	NDC
63323041206	midazolam HCl	Procedure	NDC
63323041210	midazolam HCl	Procedure	NDC
63323041213	midazolam HCl	Procedure	NDC
63323041218	midazolam HCl	Procedure	NDC
63323041225	midazolam HCl	Procedure	NDC
63323048101	lidocaine HCl/epinephrine	Procedure	NDC
63323048157	lidocaine HCl/epinephrine	Procedure	NDC
63323048201	lidocaine HCl/epinephrine	Procedure	NDC
63323048203	lidocaine HCl/epinephrine	Procedure	NDC
63323048205	lidocaine HCl/epinephrine	Procedure	NDC
63323048217	lidocaine HCl/epinephrine	Procedure	NDC
63323048226	lidocaine HCl/epinephrine	Procedure	NDC
63323048227	lidocaine HCl/epinephrine	Procedure	NDC
63323048241	lidocaine HCl/epinephrine	Procedure	NDC
63323048257	lidocaine HCl/epinephrine	Procedure	NDC
63323048301	lidocaine HCl/epinephrine	Procedure	NDC
63323048303	lidocaine HCl/epinephrine	Procedure	NDC
63323048327	lidocaine HCl/epinephrine	Procedure	NDC
63323048357	lidocaine HCl/epinephrine	Procedure	NDC
63323048457	lidocaine HCl	Procedure	NDC
63323048501	lidocaine HCl	Procedure	NDC
63323048503	lidocaine HCl	Procedure	NDC
63323048526	lidocaine HCl	Procedure	NDC
63323048527	lidocaine HCl	Procedure	NDC
63323048541	lidocaine HCl	Procedure	NDC
63323048557	lidocaine HCl	Procedure	NDC
63323048601	lidocaine HCl	Procedure	NDC
63323048602	lidocaine HCl	Procedure	NDC
63323048605	lidocaine HCl	Procedure	NDC
63323048617	lidocaine HCl	Procedure	NDC
63323048626	lidocaine HCl	Procedure	NDC
63323048627	lidocaine HCl	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
63323048641	lidocaine HCl	Procedure	NDC
63323048657	lidocaine HCl	Procedure	NDC
63323048701	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048703	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048707	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048717	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048731	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048737	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048792	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048801	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048807	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048817	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048831	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048837	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048889	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048901	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048902	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048903	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048917	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048921	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323048927	lidocaine HCl/epinephrine/PF	Procedure	NDC
63323049101	lidocaine HCl/PF	Procedure	NDC
63323049157	lidocaine HCl/PF	Procedure	NDC
63323049204	lidocaine HCl/PF	Procedure	NDC
63323049207	lidocaine HCl/PF	Procedure	NDC
63323049208	lidocaine HCl/PF	Procedure	NDC
63323049209	lidocaine HCl/PF	Procedure	NDC
63323049216	lidocaine HCl/PF	Procedure	NDC
63323049226	lidocaine HCl/PF	Procedure	NDC
63323049227	lidocaine HCl/PF	Procedure	NDC
63323049231	lidocaine HCl/PF	Procedure	NDC
63323049236	lidocaine HCl/PF	Procedure	NDC
63323049237	lidocaine HCl/PF	Procedure	NDC
63323049241	lidocaine HCl/PF	Procedure	NDC
63323049243	lidocaine HCl/PF	Procedure	NDC
63323049245	lidocaine HCl/PF	Procedure	NDC
63323049257	lidocaine HCl/PF	Procedure	NDC
63323049289	lidocaine HCl/PF	Procedure	NDC
63323049297	lidocaine HCl/PF	Procedure	NDC
63323049303	lidocaine HCl/PF	Procedure	NDC
63323049391	lidocaine HCl/PF	Procedure	NDC
63323049397	lidocaine HCl/PF	Procedure	NDC
63323049504	lidocaine HCl/PF	Procedure	NDC
63323049507	lidocaine HCl/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
63323049509	lidocaine HCl/PF	Procedure	NDC
63323049526	lidocaine HCl/PF	Procedure	NDC
63323049527	lidocaine HCl/PF	Procedure	NDC
63323049541	lidocaine HCl/PF	Procedure	NDC
63323049603	lidocaine HCl/PF	Procedure	NDC
63323049680	lidocaine HCl/PF	Procedure	NDC
63323049697	lidocaine HCl/PF	Procedure	NDC
63323049889	lidocaine HCl/PF	Procedure	NDC
63323050601	dexamethasone sodium phosphate/PF	Procedure	NDC
63323050616	dexamethasone sodium phosphate/PF	Procedure	NDC
63323050641	dexamethasone sodium phosphate/PF	Procedure	NDC
63323051610	dexamethasone sodium phosphate	Procedure	NDC
63323080601	fentanyl citrate/PF	Procedure	NDC
63323080602	fentanyl citrate/PF	Procedure	NDC
63323080605	fentanyl citrate/PF	Procedure	NDC
63323080611	fentanyl citrate/PF	Procedure	NDC
63323080612	fentanyl citrate/PF	Procedure	NDC
63323080613	fentanyl citrate/PF	Procedure	NDC
63323080614	fentanyl citrate/PF	Procedure	NDC
63323080620	fentanyl citrate/PF	Procedure	NDC
63323080650	fentanyl citrate/PF	Procedure	NDC
63323080801	fentanyl citrate/PF	Procedure	NDC
63323080811	fentanyl citrate/PF	Procedure	NDC
63323081701	fentanyl citrate/PF	Procedure	NDC
63323081720	fentanyl citrate/PF	Procedure	NDC
65282160501	lidocaine HCl/PF	Procedure	NDC
66312017616	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
66312018116	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
66975042551	lidocaine HCl/epinephrine bitartrate	Procedure	NDC
67286081201	nicardipine HCl	Procedure	NDC
67457021720	methadone HCl	Procedure	NDC
67457022400	nicardipine HCl	Procedure	NDC
67457022410	nicardipine HCl	Procedure	NDC
67457041800	dexamethasone sodium phosphate	Procedure	NDC
67457041805	dexamethasone sodium phosphate	Procedure	NDC
67457041900	dexamethasone sodium phosphate	Procedure	NDC
67457041901	dexamethasone sodium phosphate	Procedure	NDC
67457042000	dexamethasone sodium phosphate	Procedure	NDC
67457042010	dexamethasone sodium phosphate	Procedure	NDC
67457042100	dexamethasone sodium phosphate	Procedure	NDC
67457042130	dexamethasone sodium phosphate	Procedure	NDC
67457042200	dexamethasone sodium phosphate	Procedure	NDC
67457042254	dexamethasone sodium phosphate	Procedure	NDC
67457042300	dexamethasone sodium phosphate	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
67457042312	dexamethasone sodium phosphate	Procedure	NDC
67457048300	dexamethasone sodium phosphate	Procedure	NDC
67457048310	dexamethasone sodium phosphate	Procedure	NDC
67457048400	dexamethasone sodium phosphate	Procedure	NDC
67457048430	dexamethasone sodium phosphate	Procedure	NDC
67850007100	verapamil HCl	Procedure	NDC
67850007105	verapamil HCl	Procedure	NDC
67850007125	verapamil HCl	Procedure	NDC
69263080501	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
69263082001	triamcinolone acetonide	Procedure	NDC
69263082101	triamcinolone acetonide	Procedure	NDC
69263082201	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
69339013602	diazepam	Procedure	NDC
69339013603	diazepam	Procedure	NDC
69339013632	diazepam	Procedure	NDC
69339013634	diazepam	Procedure	NDC
69339013701	diazepam	Procedure	NDC
69339013705	diazepam	Procedure	NDC
69374031405	midazolam in sodium chloride, iso-osmotic/PF	Procedure	NDC
69374031410	midazolam in sodium chloride, iso-osmotic/PF	Procedure	NDC
69374052310	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
69374052311	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
69374052321	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
69374052325	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
69374052525	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
69374052620	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
69374053025	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
69374054701	dexamethasone sodium phosphate/PF	Procedure	NDC
69374094701	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
69374094750	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
69374094905	lidocaine HCl/PF	Procedure	NDC
69374096502	diazepam	Procedure	NDC
69374097802	fentanyl citrate/PF	Procedure	NDC
69374098505	lidocaine HCl/PF	Procedure	NDC
69374099605	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
69374099712	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
69374099715	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
69677007102	dexamethasone sodium phosphate/PF	Procedure	NDC
70004020006	fentanyl citrate/PF	Procedure	NDC
70004020016	fentanyl citrate/PF	Procedure	NDC
70004020017	fentanyl citrate/PF	Procedure	NDC
70004020020	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020022	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020032	fentanyl citrate/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
70004020222	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020232	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020240	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020332	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020522	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004020532	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004021106	fentanyl citrate/PF	Procedure	NDC
70004022204	fentanyl citrate/PF	Procedure	NDC
70004022209	fentanyl citrate/PF	Procedure	NDC
70004022223	fentanyl citrate/PF	Procedure	NDC
70004022230	fentanyl citrate/PF	Procedure	NDC
70004022932	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004022940	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70004023122	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004023132	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004023140	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004023164	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004024440	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004025164	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004025340	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004025440	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004026032	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70004026422	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70004028964	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70004038003	methadone HCl	Procedure	NDC
70004038005	methadone HCl	Procedure	NDC
70004041156	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70004041159	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70004054035	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
70004054135	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
70004072009	lidocaine HCl/PF	Procedure	NDC
70004072012	lidocaine HCl in sodium chloride, iso-osmotic/PF	Procedure	NDC
70004072309	lidocaine HCl/PF	Procedure	NDC
70004072505	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
70069002101	dexamethasone sodium phosphate/PF	Procedure	NDC
70069002125	dexamethasone sodium phosphate/PF	Procedure	NDC
70069002501	dexamethasone sodium phosphate	Procedure	NDC
70069002510	dexamethasone sodium phosphate	Procedure	NDC
70069027101	verapamil HCl	Procedure	NDC
70069027105	verapamil HCl	Procedure	NDC
70069027125	verapamil HCl	Procedure	NDC
70069027201	verapamil HCl	Procedure	NDC
70069027205	verapamil HCl	Procedure	NDC
70069027301	verapamil HCl	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
70069027305	verapamil HCl	Procedure	NDC
70092100736	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
70092101243	nicardipine HCl	Procedure	NDC
70092102002	dexamethasone sodium phosphate in 0.9 % sodium chloride	Procedure	NDC
70092102102	dexamethasone sodium phosphate in 0.9 % sodium chloride	Procedure	NDC
70092102543	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70092102644	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70092102935	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70092103036	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
70092109236	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092109337	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092109436	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092109743	fentanyl citrate/PF	Procedure	NDC
70092109844	fentanyl citrate/PF	Procedure	NDC
70092109949	fentanyl citrate/PF	Procedure	NDC
70092110050	fentanyl citrate/PF	Procedure	NDC
70092110236	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092110336	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092110436	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092110537	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092110736	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092110836	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092112350	meperidine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092114703	potassium chloride/lidocaine HCl in 0.9 % sodium chloride	Procedure	NDC
70092115346	lidocaine HCl/PF	Procedure	NDC
70092115443	lidocaine HCl/PF	Procedure	NDC
70092116037	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092116143	methadone hydrochloride in 0.9 % sodium chloride	Procedure	NDC
70092116946	lidocaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092117546	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
70092117735	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092117944	lidocaine HCl/PF	Procedure	NDC
70092118079	fentanyl citrate/PF	Procedure	NDC
70092119205	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092120275	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092120375	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092120737	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092122335	fentanyl citrate/PF	Procedure	NDC
70092122537	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092124850	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092125075	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092125150	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092125575	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092125975	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
70092126937	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092127450	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092129843	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
70092131275	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092138343	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092138444	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092140043	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092141836	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092144343	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
70092144405	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092145336	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092145444	fentanyl citrate/PF	Procedure	NDC
70092145643	fentanyl citrate/PF	Procedure	NDC
70092147903	potassium chloride/lidocaine HCl in 0.9 % sodium chloride	Procedure	NDC
70092148443	lidocaine HCl buffered with 8.4 % sodium bicarbonate	Procedure	NDC
70092149449	fentanyl citrate/PF	Procedure	NDC
70092149550	fentanyl citrate/PF	Procedure	NDC
70092149747	fentanyl citrate/PF	Procedure	NDC
70092149936	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092150037	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092150137	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092150436	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092150579	fentanyl citrate/PF	Procedure	NDC
70092150636	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092150935	fentanyl citrate/PF	Procedure	NDC
70092153844	lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	Procedure	NDC
70092154436	fentanyl citrate/PF	Procedure	NDC
70092154746	nicardipine HCl in 0.9 % sodium chloride	Procedure	NDC
70092156446	lidocaine HCl/PF	Procedure	NDC
70092156646	lidocaine HCl in sodium chloride, iso-osmotic/PF	Procedure	NDC
70092156744	lidocaine HCl/PF	Procedure	NDC
70092157144	lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	Procedure	NDC
70092157343	methadone hydrochloride in 0.9 % sodium chloride	Procedure	NDC
70092157536	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
70092158643	lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	Procedure	NDC
70092166243	lidocaine HCl/epinephrine in sodium chloride, iso-osmotic	Procedure	NDC
70092710836	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092720737	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092722537	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092725975	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092744076	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092744176	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092909743	fentanyl citrate/PF	Procedure	NDC
70092920275	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
70092920375	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092920737	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092922537	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092925075	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092925975	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70092926937	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70092940043	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
70092954436	fentanyl citrate/PF	Procedure	NDC
70092964536	fentanyl citrate/ropivacaine HCl/sodium chloride 0.9%/PF	Procedure	NDC
70121100001	methylprednisolone sodium succinate	Procedure	NDC
70121100005	methylprednisolone sodium succinate	Procedure	NDC
70121100101	methylprednisolone sodium succinate	Procedure	NDC
70121100105	methylprednisolone sodium succinate	Procedure	NDC
70121104901	triamcinolone acetoneide	Procedure	NDC
70121104902	triamcinolone acetoneide	Procedure	NDC
70121104905	triamcinolone acetoneide	Procedure	NDC
70121116801	triamcinolone acetoneide	Procedure	NDC
70121116901	triamcinolone acetoneide	Procedure	NDC
70121139901	dexamethasone sodium phosphate/PF	Procedure	NDC
70121139905	dexamethasone sodium phosphate/PF	Procedure	NDC
70121155201	methylprednisolone acetate	Procedure	NDC
70121155205	methylprednisolone acetate	Procedure	NDC
70121157301	methylprednisolone acetate	Procedure	NDC
70121157305	methylprednisolone acetate	Procedure	NDC
70121157401	methylprednisolone acetate	Procedure	NDC
70121157405	methylprednisolone acetate	Procedure	NDC
70121158501	verapamil HCl	Procedure	NDC
70121158505	verapamil HCl	Procedure	NDC
70121158601	verapamil HCl	Procedure	NDC
70121158603	verapamil HCl	Procedure	NDC
70121165101	triamcinolone acetoneide	Procedure	NDC
70121165105	triamcinolone acetoneide	Procedure	NDC
70121165201	triamcinolone acetoneide	Procedure	NDC
70121165301	triamcinolone acetoneide	Procedure	NDC
70121165401	triamcinolone acetoneide	Procedure	NDC
70121165501	triamcinolone acetoneide	Procedure	NDC
70121165701	triamcinolone acetoneide	Procedure	NDC
70324010201	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70324010202	midazolam HCl in 0.9 % sodium chloride/PF	Procedure	NDC
70324095101	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
70324097601	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
70515026010	digoxin	Procedure	NDC
70515026110	digoxin	Procedure	NDC
70515026210	digoxin	Procedure	NDC

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Code	Description	Code Category	Code Type
70515026310	digoxin	Procedure	NDC
70710164301	verapamil HCl	Procedure	NDC
70710164305	verapamil HCl	Procedure	NDC
70710164307	verapamil HCl	Procedure	NDC
70710164401	verapamil HCl	Procedure	NDC
70710164405	verapamil HCl	Procedure	NDC
70756060505	verapamil HCl	Procedure	NDC
70756060525	verapamil HCl	Procedure	NDC
70756060582	verapamil HCl	Procedure	NDC
70756060605	verapamil HCl	Procedure	NDC
70756060685	verapamil HCl	Procedure	NDC
70860030105	diltiazem HCl	Procedure	NDC
70860030110	diltiazem HCl	Procedure	NDC
70860030125	diltiazem HCl	Procedure	NDC
70860030141	diltiazem HCl	Procedure	NDC
70860030142	diltiazem HCl	Procedure	NDC
70860030143	diltiazem HCl	Procedure	NDC
70860060002	midazolam HCl	Procedure	NDC
70860060041	midazolam HCl	Procedure	NDC
70860060105	midazolam HCl	Procedure	NDC
70860060110	midazolam HCl	Procedure	NDC
70860060141	midazolam HCl	Procedure	NDC
70860060142	midazolam HCl	Procedure	NDC
71139603001	fentanyl citrate/PF	Procedure	NDC
71139684701	potassium chloride/lidocaine HCl in 0.9 % sodium chloride	Procedure	NDC
71266101501	betamethasone sodium phosph in sterile water for injection	Procedure	NDC
71266101502	betamethasone sodium phosph in sterile water for injection	Procedure	NDC
71266106501	methylprednisolone acetate in sodium chloride,iso-osmotic/PF	Procedure	NDC
71266107001	triamcinolone acetate in sodium chloride,iso-osmotic/PF	Procedure	NDC
71266501001	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71266503001	midazolam in sodium chloride, iso-osmotic	Procedure	NDC
71266505001	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71266919002	midazolam in sodium chloride, iso-osmotic	Procedure	NDC
71285605401	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
71285605501	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
71286200101	fentanyl citrate in dextrose 5% in water/PF	Procedure	NDC
71286200102	fentanyl citrate in dextrose 5% in water/PF	Procedure	NDC
71286200103	fentanyl citrate in dextrose 5% in water/PF	Procedure	NDC
71286200301	fentanyl citrate/PF	Procedure	NDC
71286200303	fentanyl citrate/PF	Procedure	NDC
71286200304	fentanyl citrate/PF	Procedure	NDC
71286200305	fentanyl citrate/PF	Procedure	NDC
71286200306	fentanyl citrate/PF	Procedure	NDC
71286200307	fentanyl citrate/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
71286207101	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207102	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207103	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207104	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207105	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207107	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207301	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286207401	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71286208001	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
71286208101	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
71286208201	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
71286208202	fentanyl citrate/bupivacaine HCl in 0.9 % sodium chloride/PF	Procedure	NDC
71286403301	midazolam HCl	Procedure	NDC
71286403302	midazolam HCl	Procedure	NDC
71286403501	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
71286403502	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
71286403503	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
71286403505	midazolam HCl in 0.9 % sodium chloride	Procedure	NDC
71286403601	midazolam HCl in dextrose 5% in water	Procedure	NDC
71286600601	lidocaine HCl	Procedure	NDC
71300650501	triamcinolone acetonide/lidocaine HCl	Procedure	NDC
71300650501	triamcinolone acetonide/lidocaine HCl	Procedure	NDC
71300655501	dexamethasone sodium phosphate/lidocaine HCl	Procedure	NDC
71300655501	dexamethasone sodium phosphate/lidocaine HCl	Procedure	NDC
71449000611	lidocaine HCl/PF	Procedure	NDC
71449001311	fentanyl citrate/PF	Procedure	NDC
71449001315	fentanyl citrate/PF	Procedure	NDC
71449001332	fentanyl citrate/PF	Procedure	NDC
71449001632	midazolam HCl	Procedure	NDC
71449001977	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
71449002407	lidocaine HCl/PF	Procedure	NDC
71449002411	lidocaine HCl/PF	Procedure	NDC
71449007532	bupivacaine HCl/dexamethasone sodium phos in sterile water	Procedure	NDC
71449012732	bupivacaine/dexamethasone/epinephrine in sodium chloride iso	Procedure	NDC
71449013032	midazolam HCl	Procedure	NDC
71506004105	lidocaine HCl/PF	Procedure	NDC
72196605401	diltiazem HCl/dextrose 5 % in water	Procedure	NDC
72196605501	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
72485010801	verapamil HCl	Procedure	NDC
72485010805	verapamil HCl	Procedure	NDC
72485010825	verapamil HCl	Procedure	NDC
72485010901	verapamil HCl	Procedure	NDC
72485010905	verapamil HCl	Procedure	NDC
72572012001	dexamethasone sodium phosphate	Procedure	NDC

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Code	Description	Code Category	Code Type
72572012025	dexamethasone sodium phosphate	Procedure	NDC
72572012201	dexamethasone sodium phosphate	Procedure	NDC
72572012225	dexamethasone sodium phosphate	Procedure	NDC
72572014001	diazepam	Procedure	NDC
72572014002	diazepam	Procedure	NDC
72572017001	fentanyl citrate/PF	Procedure	NDC
72572017025	fentanyl citrate/PF	Procedure	NDC
72572017101	fentanyl citrate/PF	Procedure	NDC
72572017125	fentanyl citrate/PF	Procedure	NDC
72572017201	fentanyl citrate/PF	Procedure	NDC
72572037001	lidocaine HCl/PF	Procedure	NDC
72572037025	lidocaine HCl/PF	Procedure	NDC
72572037201	lidocaine HCl/PF	Procedure	NDC
72572037225	lidocaine HCl/PF	Procedure	NDC
72572043001	midazolam HCl	Procedure	NDC
72572043025	midazolam HCl	Procedure	NDC
72572043201	midazolam HCl	Procedure	NDC
72572043210	midazolam HCl	Procedure	NDC
72572047001	nicardipine HCl	Procedure	NDC
72572047010	nicardipine HCl	Procedure	NDC
72603010801	triamcinolone acetonide	Procedure	NDC
72603020201	triamcinolone acetonide	Procedure	NDC
72603040101	triamcinolone acetonide	Procedure	NDC
72611074101	midazolam HCl	Procedure	NDC
72611074125	midazolam HCl	Procedure	NDC
72611074901	midazolam HCl	Procedure	NDC
72611074910	midazolam HCl	Procedure	NDC
72893000803	vincristine sulfate liposomal	Procedure	NDC
73177010201	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177010203	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177010302	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177010304	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177010305	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177010307	fentanyl citrate in 0.9 % sodium chloride/PF	Procedure	NDC
73177011012	lidocaine HCl buffered with sodium phosphate	Procedure	NDC
73293000101	lidocaine HCl/PF	Procedure	NDC
76045000100	midazolam HCl/PF	Procedure	NDC
76045000120	midazolam HCl/PF	Procedure	NDC
76045000210	midazolam HCl/PF	Procedure	NDC
76045000320	midazolam HCl/PF	Procedure	NDC
76045010610	dexamethasone sodium phosphate	Procedure	NDC
76045010910	dexamethasone sodium phosphate/PF	Procedure	NDC
76154081805	diltiazem HCl in 0.9 % sodium chloride	Procedure	NDC
76329339001	lidocaine HCl/PF	Procedure	NDC

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
76420008005	lidocaine HCl/PF	Procedure	NDC
76420008101	methylprednisolone acetate	Procedure	NDC
76420008402	lidocaine HCl/PF	Procedure	NDC
76420008501	triamcinolone acetonide	Procedure	NDC
76420076601	dexamethasone sodium phosphate/PF	Procedure	NDC
78206011801	betamethasone acetate/betamethasone sodium phosphate	Procedure	NDC
80158	Cyclosporine	Procedure	CPT-4
80162	Digoxin; total	Procedure	CPT-4
80163	Digoxin; free	Procedure	CPT-4
80176	Lidocaine	Procedure	CPT-4
80197	Tacrolimus	Procedure	CPT-4
80354	Fentanyl	Procedure	CPT-4
80358	Methadone	Procedure	CPT-4
81298578303	triamcinolone acetonide	Procedure	NDC
81298578503	triamcinolone acetonide	Procedure	NDC
81565020201	dexamethasone sodium phosphate	Procedure	NDC
81565020202	dexamethasone sodium phosphate	Procedure	NDC
82636	Diazepam	Procedure	CPT-4
82643	Digoxin, Ria	Procedure	CPT-4
83685	Lidocaine	Procedure	CPT-4
83840	Methadone	Procedure	CPT-4
C9006	Injection, tacrolimus, per 5 mg (1 amp)	Procedure	HCPCS
C9034	Injection, dexamethasone 9%, intraocular, 1 mcg	Procedure	HCPCS
C9035	Injection, aripiprazole lauroxil (Aristada Initio), 1 mg	Procedure	HCPCS
C9048	Dexamethasone, lacrimal ophthalmic insert, 0.1 mg	Procedure	HCPCS
C9092	Injection, triamcinolone acetonide, suprachoroidal (Xipere), 1 mg	Procedure	HCPCS
C9256	Injection, dexamethasone intravitreal implant, 0.1 mg	Procedure	HCPCS
C9285	Lidocaine 70 mg/tetracaine 70 mg, per patch	Procedure	HCPCS
C9438	Cyclosporine, oral, 100 mg, brand name	Procedure	HCPCS
C9456	Injection, isavuconazonium sulfate, 1 mg	Procedure	HCPCS
C9469	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
C9470	Injection, aripiprazole lauroxil, 1 mg	Procedure	HCPCS
G2067	Medication assisted treatment, methadone; weekly bundle including dispensing and/or administration, substance use counseling, individual and group therapy, and toxicology testing, if performed (provision of the services by a Medicare-enrolled opioid treatment program)	Procedure	HCPCS
G2078	Take home supply of methadone; up to 7 additional day supply (provision of the services by a Medicare-enrolled opioid treatment program); list separately in addition to code for primary procedure	Procedure	HCPCS
G6053	Assay of methadone	Procedure	HCPCS
H0020	Alcohol and/or drug services; methadone administration and/or service (provision of the drug by a licensed program)	Procedure	HCPCS
J0400	Injection, aripiprazole, intramuscular, 0.25 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J0401	Injection, aripiprazole, extended release, 1 mg	Procedure	HCPCS
J0702	Injection, betamethasone acetate 3 mg and betamethasone sodium phosphate 3 mg	Procedure	HCPCS
J0704	Injection, betamethasone sodium phosphate, per 4 mg	Procedure	HCPCS
J0900	INJECTION, TESTOSTERONE ENANTHATE AND ESTRADIOL VALERATE, UP TO 1 CC	Procedure	HCPCS
J0970	INJECTION, ESTRADIOL VALERATE, UP TO 40 MG	Procedure	HCPCS
J1000	INJECTION, DEPO-ESTRADIOL CYPIONATE, UP TO 5 MG	Procedure	HCPCS
J1020	Injection, methylprednisolone acetate, 20 mg	Procedure	HCPCS
J1030	Injection, methylprednisolone acetate, 40 mg	Procedure	HCPCS
J1040	Injection, methylprednisolone acetate, 80 mg	Procedure	HCPCS
J1094	Injection, dexamethasone acetate, 1 mg	Procedure	HCPCS
J1095	Injection, dexamethasone 9%, intraocular, 1 mcg	Procedure	HCPCS
J1096	Dexamethasone, lacrimal ophthalmic insert, 0.1 mg	Procedure	HCPCS
J1100	Injection, dexamethasone sodium phosphate, 1 mg	Procedure	HCPCS
J1160	Injection, digoxin, up to 0.5 mg	Procedure	HCPCS
J1162	Injection, digoxin immune fab (ovine), per vial	Procedure	HCPCS
J1230	Injection, methadone HCl, up to 10 mg	Procedure	HCPCS
J1362	Injection, erythromycin gluceptate, per 250 mg	Procedure	HCPCS
J1364	Injection, erythromycin lactobionate, per 500 mg	Procedure	HCPCS
J1380	INJECTION, ESTRADIOL VALERATE, UP TO 10 MG	Procedure	HCPCS
J1810	Injection, droperidol and fentanyl citrate, up to 2 ml ampule	Procedure	HCPCS
J1833	Injection, isavuconazonium, 1 mg	Procedure	HCPCS
J1835	INJECTION, ITRACONAZOLE, 50 MG	Procedure	HCPCS
J1942	Injection, aripiprazole lauroxil, 1 mg	Procedure	HCPCS
J1943	Injection, aripiprazole lauroxil, (Aristada Initio), 1 mg	Procedure	HCPCS
J1944	Injection, aripiprazole lauroxil, (Aristada), 1 mg	Procedure	HCPCS
J2000	Injection, lidocaine HCL, 50 cc	Procedure	HCPCS
J2001	Injection, lidocaine HCl for intravenous infusion, 10 mg	Procedure	HCPCS
J2175	INJECTION, MEPERIDINE HYDROCHLORIDE, PER 100 MG	Procedure	HCPCS
J2180	INJECTION, MEPERIDINE AND PROMETHAZINE HCL, UP TO 50 MG	Procedure	HCPCS
J2250	Injection, midazolam HCl, per 1 mg	Procedure	HCPCS
J2920	Injection, methylprednisolone sodium succinate, up to 40 mg	Procedure	HCPCS
J2930	Injection, methylprednisolone sodium succinate, up to 125 mg	Procedure	HCPCS
J3010	Injection, fentanyl citrate, 0.1 mg	Procedure	HCPCS
J3299	Injection, triamcinolone acetonide (Xipere), 1 mg	Procedure	HCPCS
J3300	Injection, triamcinolone acetonide, preservative free, 1 mg	Procedure	HCPCS
J3301	Injection, triamcinolone acetonide, not otherwise specified, 10 mg	Procedure	HCPCS
J3302	Injection, triamcinolone diacetate, per 5 mg	Procedure	HCPCS
J3303	Injection, triamcinolone hexacetonide, per 5 mg	Procedure	HCPCS
J3304	Injection, triamcinolone acetonide, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
J3360	Injection, diazepam, up to 5 mg	Procedure	HCPCS
J3485	Injection, zidovudine, 10 mg	Procedure	HCPCS
J7294	Segesterone acetate and ethinyl estradiol 0.15mg, 0.013mg per 24 hours; yearly vaginal system, each	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J7295	Ethinyl estradiol and etonogestrel 0.015mg, 0.12mg per 24 hours; monthly vaginal ring, each	Procedure	HCPCS
J7312	Injection, dexamethasone, intravitreal implant, 0.1 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7503	Tacrolimus, extended release, (Envarsus XR), oral, 0.25 mg	Procedure	HCPCS
J7507	Tacrolimus, immediate release, oral, 1 mg	Procedure	HCPCS
J7508	Tacrolimus, extended release, (Astagraf XL), oral, 0.1 mg	Procedure	HCPCS
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7516	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
J7525	Tacrolimus, parenteral, 5 mg	Procedure	HCPCS
J7624	Betamethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7637	Dexamethasone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J7638	Dexamethasone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J7683	Triamcinolone, inhalation solution, compounded product, administered through DME, concentrated form, per mg	Procedure	HCPCS
J7684	Triamcinolone, inhalation solution, compounded product, administered through DME, unit dose form, per mg	Procedure	HCPCS
J8540	Dexamethasone, oral, 0.25 mg	Procedure	HCPCS
J9360	Injection, vinblastine sulfate, 1 mg	Procedure	HCPCS
J9370	Vincristine sulfate, 1 mg	Procedure	HCPCS
J9371	Injection, vincristine sulfate liposome, 1 mg	Procedure	HCPCS
J9375	Vincristine sulfate, 2 mg	Procedure	HCPCS
J9380	Vincristine sulfate, 5 mg	Procedure	HCPCS
K0122	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
K0512	Dexamethasone, inhalation solution administered through DME, concentrated form, per milligram	Procedure	HCPCS
K0513	Dexamethasone, inhalation solution administered through DME, unit dose form, per milligram	Procedure	HCPCS
K0527	Triamcinolone, inhalation solution administered through DME, concentrated form, per milligram	Procedure	HCPCS
K0528	Triamcinolone, inhalation solution administered through DME, unit dose form, per milligram	Procedure	HCPCS
Q2006	Injection, digoxin immune fab (ovine), per vial	Procedure	HCPCS
Q9993	Injection, triamcinolone acetate, preservative-free, extended-release, microsphere formulation, 1 mg	Procedure	HCPCS
S0104	Zidovudine, oral, 100 mg	Procedure	HCPCS
S0106	BUPROPION HCL SUSTAINED RELEASE TABLET, 150 MG, PER BOTTLE OF 60 TABLETS	Procedure	HCPCS
S0109	Methadone, oral, 5 mg	Procedure	HCPCS
S0136	CLOZAPINE, 25 MG	Procedure	HCPCS
S0173	Dexamethasone, oral, 4 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Chemotherapy			
3E00X05	Introduction of Other Antineoplastic into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E00X0M	Introduction of Antineoplastic, Monoclonal Antibody, into Skin and Mucous Membranes, External Approach	Procedure	ICD-10-PCS
3E01305	Introduction of Other Antineoplastic into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E0130M	Introduction of Antineoplastic, Monoclonal Antibody, into Subcutaneous Tissue, Percutaneous Approach	Procedure	ICD-10-PCS
3E02305	Introduction of Other Antineoplastic into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E0230M	Introduction of Antineoplastic, Monoclonal Antibody, into Muscle, Percutaneous Approach	Procedure	ICD-10-PCS
3E03002	Introduction of High-dose Interleukin-2 into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03003	Introduction of Low-dose Interleukin-2 into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03005	Introduction of Other Antineoplastic into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E0300M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E0300P	Introduction of Clofarabine into Peripheral Vein, Open Approach	Procedure	ICD-10-PCS
3E03302	Introduction of High-dose Interleukin-2 into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E03303	Introduction of Low-dose Interleukin-2 into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E03305	Introduction of Other Antineoplastic into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0330M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0330P	Introduction of Clofarabine into Peripheral Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04002	Introduction of High-dose Interleukin-2 into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04003	Introduction of Low-dose Interleukin-2 into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04005	Introduction of Other Antineoplastic into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E0400M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E0400P	Introduction of Clofarabine into Central Vein, Open Approach	Procedure	ICD-10-PCS
3E04302	Introduction of High-dose Interleukin-2 into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04303	Introduction of Low-dose Interleukin-2 into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E04305	Introduction of Other Antineoplastic into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0430M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E0430P	Introduction of Clofarabine into Central Vein, Percutaneous Approach	Procedure	ICD-10-PCS
3E05002	Introduction of High-dose Interleukin-2 into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05003	Introduction of Low-dose Interleukin-2 into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05005	Introduction of Other Antineoplastic into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E0500M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E0500P	Introduction of Clofarabine into Peripheral Artery, Open Approach	Procedure	ICD-10-PCS
3E05302	Introduction of High-dose Interleukin-2 into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E05303	Introduction of Low-dose Interleukin-2 into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
3E05305	Introduction of Other Antineoplastic into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0530M	Introduction of Antineoplastic, Monoclonal Antibody, into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0530P	Introduction of Clofarabine into Peripheral Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06002	Introduction of High-dose Interleukin-2 into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06003	Introduction of Low-dose Interleukin-2 into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06005	Introduction of Other Antineoplastic into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E0600M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E0600P	Introduction of Clofarabine into Central Artery, Open Approach	Procedure	ICD-10-PCS
3E06302	Introduction of High-dose Interleukin-2 into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06303	Introduction of Low-dose Interleukin-2 into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E06305	Introduction of Other Antineoplastic into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0630M	Introduction of Antineoplastic, Monoclonal Antibody, into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E0630P	Introduction of Clofarabine into Central Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E09305	Introduction of Other Antineoplastic into Nose, Percutaneous Approach	Procedure	ICD-10-PCS
3E0930M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, Percutaneous Approach	Procedure	ICD-10-PCS
3E09705	Introduction of Other Antineoplastic into Nose, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0970M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E09X05	Introduction of Other Antineoplastic into Nose, External Approach	Procedure	ICD-10-PCS
3E09X0M	Introduction of Antineoplastic, Monoclonal Antibody, into Nose, External Approach	Procedure	ICD-10-PCS
3E0A305	Introduction of Other Antineoplastic into Bone Marrow, Percutaneous Approach	Procedure	ICD-10-PCS
3E0A30M	Introduction of Antineoplastic, Monoclonal Antibody, into Bone Marrow, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B305	Introduction of Other Antineoplastic into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B30M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, Percutaneous Approach	Procedure	ICD-10-PCS
3E0B705	Introduction of Other Antineoplastic into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0B70M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0BX05	Introduction of Other Antineoplastic into Ear, External Approach	Procedure	ICD-10-PCS
3E0BX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Ear, External Approach	Procedure	ICD-10-PCS
3E0C305	Introduction of Other Antineoplastic into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0C30M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, Percutaneous Approach	Procedure	ICD-10-PCS
3E0C705	Introduction of Other Antineoplastic into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0C70M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0CX05	Introduction of Other Antineoplastic into Eye, External Approach	Procedure	ICD-10-PCS
3E0CX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Eye, External Approach	Procedure	ICD-10-PCS
3E0D305	Introduction of Other Antineoplastic into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
3E0D30M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, Percutaneous Approach	Procedure	ICD-10-PCS
3E0D705	Introduction of Other Antineoplastic into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0D70M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0DX05	Introduction of Other Antineoplastic into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E0DX0M	Introduction of Antineoplastic, Monoclonal Antibody, into Mouth and Pharynx, External Approach	Procedure	ICD-10-PCS
3E0E305	Introduction of Other Antineoplastic into Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E30M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Percutaneous Approach	Procedure	ICD-10-PCS
3E0E705	Introduction of Other Antineoplastic into Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E70M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0E805	Introduction of Other Antineoplastic into Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0E80M	Introduction of Antineoplastic, Monoclonal Antibody, into Products of Conception, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0F305	Introduction of Other Antineoplastic into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F30M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3E0F705	Introduction of Other Antineoplastic into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F70M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0F805	Introduction of Other Antineoplastic into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0F80M	Introduction of Antineoplastic, Monoclonal Antibody, into Respiratory Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G305	Introduction of Other Antineoplastic into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G30M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Percutaneous Approach	Procedure	ICD-10-PCS
3E0G705	Introduction of Other Antineoplastic into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G70M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0G805	Introduction of Other Antineoplastic into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0G80M	Introduction of Antineoplastic, Monoclonal Antibody, into Upper GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0H305	Introduction of Other Antineoplastic into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
3EOH30M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Percutaneous Approach	Procedure	ICD-10-PCS
3EOH705	Introduction of Other Antineoplastic into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOH70M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOH805	Introduction of Other Antineoplastic into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOH80M	Introduction of Antineoplastic, Monoclonal Antibody, into Lower GI, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOJ305	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3EOJ30M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3EOJ705	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOJ70M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOJ805	Introduction of Other Antineoplastic into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOJ80M	Introduction of Antineoplastic, Monoclonal Antibody, into Biliary and Pancreatic Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOK305	Introduction of Other Antineoplastic into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3EOK30M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Percutaneous Approach	Procedure	ICD-10-PCS
3EOK705	Introduction of Other Antineoplastic into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOK70M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOK805	Introduction of Other Antineoplastic into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOK80M	Introduction of Antineoplastic, Monoclonal Antibody, into Genitourinary Tract, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3EOL305	Introduction of Other Antineoplastic into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3EOL30M	Introduction of Antineoplastic, Monoclonal Antibody, into Pleural Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3EOL705	Introduction of Other Antineoplastic into Pleural Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOL70M	Introduction of Antineoplastic, Monoclonal Antibody, into Pleural Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3EOM305	Introduction of Other Antineoplastic into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3EOM30M	Introduction of Antineoplastic, Monoclonal Antibody, into Peritoneal Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3EOM705	Introduction of Other Antineoplastic into Peritoneal Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
3E0M70M	Introduction of Antineoplastic, Monoclonal Antibody, into Peritoneal Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N305	Introduction of Other Antineoplastic into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N30M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0N705	Introduction of Other Antineoplastic into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N70M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0N805	Introduction of Other Antineoplastic into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0N80M	Introduction of Antineoplastic, Monoclonal Antibody, into Male Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0P305	Introduction of Other Antineoplastic into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0P30M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Percutaneous Approach	Procedure	ICD-10-PCS
3E0P705	Introduction of Other Antineoplastic into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P70M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0P805	Introduction of Other Antineoplastic into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0P80M	Introduction of Antineoplastic, Monoclonal Antibody, into Female Reproductive, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
3E0Q005	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Q00M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Open Approach	Procedure	ICD-10-PCS
3E0Q305	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q30M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Q705	Introduction of Other Antineoplastic into Cranial Cavity and Brain, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Q70M	Introduction of Antineoplastic, Monoclonal Antibody, into Cranial Cavity and Brain, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0R302	Introduction of High-dose Interleukin-2 into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R303	Introduction of Low-dose Interleukin-2 into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R305	Introduction of Other Antineoplastic into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0R30M	Introduction of Antineoplastic, Monoclonal Antibody, into Spinal Canal, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S302	Introduction of High-dose Interleukin-2 into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S303	Introduction of Low-dose Interleukin-2 into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0S305	Introduction of Other Antineoplastic into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
3E0S30M	Introduction of Antineoplastic, Monoclonal Antibody, into Epidural Space, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U305	Introduction of Other Antineoplastic into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0U30M	Introduction of Antineoplastic, Monoclonal Antibody, into Joints, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V305	Introduction of Other Antineoplastic into Bones, Percutaneous Approach	Procedure	ICD-10-PCS
3E0V30M	Introduction of Antineoplastic, Monoclonal Antibody, into Bones, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W305	Introduction of Other Antineoplastic into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0W30M	Introduction of Antineoplastic, Monoclonal Antibody, into Lymphatics, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y305	Introduction of Other Antineoplastic into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y30M	Introduction of Antineoplastic, Monoclonal Antibody, into Pericardial Cavity, Percutaneous Approach	Procedure	ICD-10-PCS
3E0Y705	Introduction of Other Antineoplastic into Pericardial Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
3E0Y70M	Introduction of Antineoplastic, Monoclonal Antibody, into Pericardial Cavity, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
96401	Chemotherapy administration, subcutaneous or intramuscular; non-hormonal anti-neoplastic	Procedure	CPT-4
96402	Chemotherapy administration, subcutaneous or intramuscular; hormonal anti-neoplastic	Procedure	CPT-4
96409	Chemotherapy administration; intravenous, push technique, single or initial substance/drug	Procedure	CPT-4
96411	Chemotherapy administration; intravenous, push technique, each additional substance/drug (List separately in addition to code for primary procedure)	Procedure	CPT-4
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug	Procedure	CPT-4
96415	Chemotherapy administration, intravenous infusion technique; each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96416	Chemotherapy administration, intravenous infusion technique; initiation of prolonged chemotherapy infusion (more than 8 hours), requiring use of a portable or implantable pump	Procedure	CPT-4
96417	Chemotherapy administration, intravenous infusion technique; each additional sequential infusion (different substance/drug), up to 1 hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96420	CHEMOTX ADMIN INTRA-ART; PUSH TECH	Procedure	CPT-4
96422	CHEMOTX ADMIN INTRA-ART; INFUSION TECH TO 1 HR	Procedure	CPT-4
96423	Chemotherapy administration, intra-arterial; infusion technique, each additional hour up to 8 hours (List separately in addition to code for primary procedure)	Procedure	CPT-4
96425	Chemotherapy administration, intra-arterial; infusion technique, initiation of prolonged infusion (more than 8 hours), requiring the use of a portable or implantable pump	Procedure	CPT-4
96440	CHEMOTX-PLEURAL CAVITY-REQ & INCL THORACENTESIS	Procedure	CPT-4

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
96446	Chemotherapy administration into the peritoneal cavity via indwelling port or catheter	Procedure	CPT-4
96450	Chemotherapy administration, into CNS (eg, intrathecal), requiring and including spinal puncture	Procedure	CPT-4
96542	CHEMOTX INJ SUBARACH/INTRAVENTRIC-1/MX AGENTS	Procedure	CPT-4
96549	UNLISTED CHEMOTX PROC	Procedure	CPT-4
A9545	Iodine I-131 tositumomab, therapeutic, per treatment dose	Procedure	HCPCS
C1084	Denileukin diftitox, 300 mcg, ontak iv	Procedure	HCPCS
C1086	Temozolomide, 5 mg, temodar	Procedure	HCPCS
C1166	Injection, cytarabine liposome, per 10 mg	Procedure	HCPCS
C1167	Injection, epirubicin HCl, 2 mg	Procedure	HCPCS
C1178	Injection, busulfan, per 6 mg	Procedure	HCPCS
C9004	Injection, gemtuzumab ozogamicin, per 5 mg	Procedure	HCPCS
C9012	Injection, arsenic trioxide, per 1 mg/kg	Procedure	HCPCS
C9017	Lomustine, 10 mg	Procedure	HCPCS
C9021	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
C9024	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
C9042	Injection, bendamustine HCl (Belrapzo), 1 mg	Procedure	HCPCS
C9044	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
C9045	Injection, moxetumomab pasudotox-tdfk, 0.01 mg	Procedure	HCPCS
C9049	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
C9050	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
C9110	Injection, alemtuzumab, per 10 mg/ ml	Procedure	HCPCS
C9127	Injection, paclitaxel protein-bound particles, per 1 mg	Procedure	HCPCS
C9129	Injection, clofarabine, per 1 mg	Procedure	HCPCS
C9205	Injection, oxaliplatin, per 5 mg	Procedure	HCPCS
C9207	Injection, bortezomib, per 3.5 mg	Procedure	HCPCS
C9213	Injection, pemetrexed, per 10 mg	Procedure	HCPCS
C9214	Injection, bevacizumab, per 10 mg	Procedure	HCPCS
C9215	Injection, cetuximab, per 10 mg	Procedure	HCPCS
C9218	Injection, azacitidine, per 1 mg	Procedure	HCPCS
C9231	Injection, decitabine, per 1 mg	Procedure	HCPCS
C9235	Injection, panitumumab, 10 mg	Procedure	HCPCS
C9239	Injection, temsirolimus, 1 mg	Procedure	HCPCS
C9240	Injection, ixabepilone, 1 mg	Procedure	HCPCS
C9243	Injection, bendamustine hcl, 1 mg	Procedure	HCPCS
C9253	Injection, temozolomide, 1mg	Procedure	HCPCS
C9259	Injection, pralatrexate, 1 mg	Procedure	HCPCS
C9260	Injection, ofatumumab, 10 mg	Procedure	HCPCS
C9262	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
C9265	Injection, romidepsin, 1 mg	Procedure	HCPCS
C9273	Sipuleucel-T, minimum of 50 million autologous CD54+ cells activated with PAP-GM-CSF, including leukapheresis and all other preparatory procedures, per infusion	Procedure	HCPCS
C9276	Injection, cabazitaxel, 1 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C9280	Injection, eribulin mesylate, 1 mg	Procedure	HCPCS
C9284	Injection, ipilimumab, 1 mg	Procedure	HCPCS
C9287	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
C9289	Injection, asparaginase Erwinia chrysanthemi, 1,000 IU	Procedure	HCPCS
C9292	Injection, pertuzumab, 10 mg	Procedure	HCPCS
C9295	Injection, carfilzomib, 1 mg	Procedure	HCPCS
C9297	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
C9414	Etoposide; oral, 50 mg, brand name	Procedure	HCPCS
C9415	Doxorubicin HCl, 10 mg, brand name	Procedure	HCPCS
C9417	Bleomycin sulfate, 15 units, brand name	Procedure	HCPCS
C9418	Cisplatin, powder or solution, per 10 mg, brand name	Procedure	HCPCS
C9419	Injection, cladribine, per 1 mg, brand name	Procedure	HCPCS
C9420	Cyclophosphamide, 100 mg, brand name	Procedure	HCPCS
C9421	Cyclophosphamide, lyophilized, 100 mg, brand name	Procedure	HCPCS
C9422	Cytarabine, 100 mg, brand name	Procedure	HCPCS
C9423	Dacarbazine, 100 mg, brand name	Procedure	HCPCS
C9424	Daunorubicin, 10 mg	Procedure	HCPCS
C9425	Etoposide, 10 mg, brand name	Procedure	HCPCS
C9426	Floxuridine, 500 mg, brand name	Procedure	HCPCS
C9427	Ifosfamide, 1 gm, brand name	Procedure	HCPCS
C9429	Idarubicin HCl, 5 mg, brand name	Procedure	HCPCS
C9431	Paclitaxel, 30 mg, brand name	Procedure	HCPCS
C9432	Mitomycin, 5 mg, brand name	Procedure	HCPCS
C9433	Thiotepa, 15 mg, brand name	Procedure	HCPCS
C9437	Carmustine, brand name, 100 mg	Procedure	HCPCS
C9440	Vinorelbine tartrate, brand name, per 10 mg	Procedure	HCPCS
C9474	Injection, irinotecan liposome, 1 mg	Procedure	HCPCS
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D70.1	Agranulocytosis secondary to cancer chemotherapy	Diagnosis	ICD-10-CM
G0498	Chemotherapy administration, intravenous infusion technique; initiation of infusion in the office/clinic setting using office/clinic pump/supplies, with continuation of the infusion in the community setting (e.g., home, domiciliary, rest home or assisted living) using a portable pump provided by the office/clinic, includes follow up office/clinic visit at the conclusion of the infusion	Procedure	HCPCS
G3001	Administration and supply of tositumomab, 450 mg	Procedure	HCPCS
G9835	Trastuzumab administered within 12 months of diagnosis	Procedure	HCPCS
G9837	Trastuzumab not administered within 12 months of diagnosis	Procedure	HCPCS
J0202	Injection, alemtuzumab, 1 mg	Procedure	HCPCS
J0207	Injection, amifostine, 500 mg	Procedure	HCPCS
J0594	Injection, busulfan, 1 mg	Procedure	HCPCS
J0894	Injection, decitabine, 1 mg	Procedure	HCPCS
J7527	Everolimus, oral, 0.25 mg	Procedure	HCPCS
J8510	Busulfan; oral, 2 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
J8520	Capecitabine, oral, 150 mg	Procedure	HCPCS
J8521	Capecitabine, oral, 500 mg	Procedure	HCPCS
J8530	Cyclophosphamide, oral, 25 mg	Procedure	HCPCS
J8560	Etoposide, oral, 50 mg	Procedure	HCPCS
J8561	Everolimus, oral, 0.25 mg	Procedure	HCPCS
J8562	Fludarabine phosphate, oral, 10 mg	Procedure	HCPCS
J8565	Gefitinib, oral, 250 mg	Procedure	HCPCS
J8600	Melphalan, oral 2 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J8700	Temozolomide, oral, 5 mg	Procedure	HCPCS
J8705	Topotecan, oral, 0.25 mg	Procedure	HCPCS
J8999	Prescription drug, oral, chemotherapeutic, nos	Procedure	HCPCS
J9000	Injection, doxorubicin HCl, 10 mg	Procedure	HCPCS
J9001	Injection, doxorubicin HCl, all lipid formulations, 10 mg	Procedure	HCPCS
J9002	Injection, doxorubicin hydrochloride, liposomal, Doxil, 10 mg	Procedure	HCPCS
J9010	Injection, alemtuzumab, 10 mg	Procedure	HCPCS
J9015	Injection, aldesleukin, per single use vial	Procedure	HCPCS
J9017	Injection, arsenic trioxide, 1 mg	Procedure	HCPCS
J9019	Injection, asparaginase (Erwinaze), 1,000 IU	Procedure	HCPCS
J9020	Injection, asparaginase, not otherwise specified, 10,000 units	Procedure	HCPCS
J9025	Injection, azacitidine, 1 mg	Procedure	HCPCS
J9027	Injection, clofarabine, 1 mg	Procedure	HCPCS
J9033	Injection, bendamustine HCl (Treanda), 1 mg	Procedure	HCPCS
J9034	Injection, bendamustine HCl (Bendeka), 1 mg	Procedure	HCPCS
J9035	Injection, bevacizumab, 10 mg	Procedure	HCPCS
J9036	Injection, bendamustine hydrochloride, (Belrapzo/bendamustine), 1 mg	Procedure	HCPCS
J9040	Injection, bleomycin sulfate, 15 units	Procedure	HCPCS
J9041	Injection, bortezomib (Velcade), 0.1 mg	Procedure	HCPCS
J9042	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
J9043	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
J9045	Injection, carboplatin, 50 mg	Procedure	HCPCS
J9047	Injection, carfilzomib, 1 mg	Procedure	HCPCS
J9050	Injection, carmustine, 100 mg	Procedure	HCPCS
J9055	Injection, cetuximab, 10 mg	Procedure	HCPCS
J9057	Injection, copanlisib, 1 mg	Procedure	HCPCS
J9060	Injection, cisplatin, powder or solution, 10 mg	Procedure	HCPCS
J9062	Cisplatin, 50 mg	Procedure	HCPCS
J9065	Injection, cladribine, per 1 mg	Procedure	HCPCS
J9070	Cyclophosphamide, 100 mg	Procedure	HCPCS
J9080	Cyclophosphamide, 200 mg	Procedure	HCPCS
J9090	Cyclophosphamide, 500 mg	Procedure	HCPCS
J9091	Cyclophosphamide, 1 g	Procedure	HCPCS
J9092	Cyclophosphamide, 2 g	Procedure	HCPCS
J9093	Cyclophosphamide, lyophilized, 100 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
J9094	Cyclophosphamide, lyophilized, 200 mg	Procedure	HCPCS
J9095	Cyclophosphamide, lyophilized, 500 mg	Procedure	HCPCS
J9096	Cyclophosphamide, lyophilized, 1 g	Procedure	HCPCS
J9097	Cyclophosphamide, lyophilized, 2 g	Procedure	HCPCS
J9098	Injection, cytarabine liposome, 10 mg	Procedure	HCPCS
J9100	Cytarabine, 100 mg	Procedure	HCPCS
J9110	Injection, cytarabine, 500 mg	Procedure	HCPCS
J9118	Injection, calaspargase pegol-mknl, 10 units	Procedure	HCPCS
J9120	Injection, dactinomycin, 0.5 mg	Procedure	HCPCS
J9130	Dacarbazine, 100 mg	Procedure	HCPCS
J9140	Dacarbazine, 200 mg	Procedure	HCPCS
J9150	Injection, daunorubicin, 10 mg	Procedure	HCPCS
J9151	Injection, daunorubicin citrate, liposomal formulation, 10 mg	Procedure	HCPCS
J9153	Injection, liposomal, 1 mg daunorubicin and 2.27 mg cytarabine	Procedure	HCPCS
J9160	Injection, denileukin diftitox, 300 mcg	Procedure	HCPCS
J9170	Injection, docetaxel, 20 mg	Procedure	HCPCS
J9171	Injection, docetaxel, 1 mg	Procedure	HCPCS
J9173	Injection, durvalumab, 10 mg	Procedure	HCPCS
J9178	Injection, epirubicin HCl, 2 mg	Procedure	HCPCS
J9179	Injection, eribulin mesylate, 0.1 mg	Procedure	HCPCS
J9180	Epirubicin HCl, 50 mg	Procedure	HCPCS
J9181	Injection, etoposide, 10 mg	Procedure	HCPCS
J9182	Etoposide, 100 mg	Procedure	HCPCS
J9185	Injection, fludarabine phosphate, 50 mg	Procedure	HCPCS
J9190	Injection, fluorouracil, 500 mg	Procedure	HCPCS
J9200	Floxuridine, 500 mg	Procedure	HCPCS
J9201	Injection, gemcitabine HCl, not otherwise specified, 200 mg	Procedure	HCPCS
J9203	Injection, gemtuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9205	Injection, irinotecan liposome, 1 mg	Procedure	HCPCS
J9206	Injection, irinotecan, 20 mg	Procedure	HCPCS
J9207	Injection, ixabepilone, 1 mg	Procedure	HCPCS
J9208	Injection, ifosfamide, 1 g	Procedure	HCPCS
J9211	Idarubicin HCl, 5 mg	Procedure	HCPCS
J9228	Injection, ipilimumab, 1 mg	Procedure	HCPCS
J9229	Injection, inotuzumab ozogamicin, 0.1 mg	Procedure	HCPCS
J9230	Injection, mechlorethamine HCl, (nitrogen mustard), 10 mg	Procedure	HCPCS
J9245	Injection, melphalan hydrochloride, not otherwise specified, 50 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
J9261	Injection, nelarabine, 50 mg	Procedure	HCPCS
J9262	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
J9263	Injection, oxaliplatin, 0.5 mg	Procedure	HCPCS
J9264	Injection, paclitaxel protein-bound particles, 1 mg	Procedure	HCPCS
J9265	Injection, paclitaxel, 30 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J9266	Injection, pegaspargase, per single dose vial	Procedure	HCPCS
J9267	Injection, paclitaxel, 1 mg	Procedure	HCPCS
J9268	Pentostatin, per 10 mg	Procedure	HCPCS
J9269	Injection, tagraxofusp-erzs, 10 mcg	Procedure	HCPCS
J9270	Plicamycin, 2.5 mg	Procedure	HCPCS
J9280	Mitomycin, 5 mg	Procedure	HCPCS
J9290	Mitomycin, 20 mg	Procedure	HCPCS
J9291	Mitomycin, 40 mg	Procedure	HCPCS
J9293	Injection, mitoxantrone HCl, per 5 mg	Procedure	HCPCS
J9300	Injection, gemtuzumab ozogamicin, 5 mg	Procedure	HCPCS
J9301	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
J9302	Injection, ofatumumab, 10 mg	Procedure	HCPCS
J9303	Injection, panitumumab, 10 mg	Procedure	HCPCS
J9305	Injection, pemetrexed, NOS, 10 mg	Procedure	HCPCS
J9306	Injection, pertuzumab, 1 mg	Procedure	HCPCS
J9307	Injection, pralatrexate, 1 mg	Procedure	HCPCS
J9310	Injection, rituximab, 100 mg	Procedure	HCPCS
J9311	Injection, rituximab 10 mg and hyaluronidase	Procedure	HCPCS
J9312	Injection, rituximab, 10 mg	Procedure	HCPCS
J9315	Injection, romidepsin, 1 mg	Procedure	HCPCS
J9320	Streptozocin, 1 g	Procedure	HCPCS
J9328	Injection, temozolomide, 1 mg	Procedure	HCPCS
J9330	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9340	Thiotepa, 15 mg	Procedure	HCPCS
J9350	Injection, topotecan, 4 mg	Procedure	HCPCS
J9351	Injection, topotecan, 0.1 mg	Procedure	HCPCS
J9355	Injection, trastuzumab, 10 mg	Procedure	HCPCS
J9356	Injection, trastuzumab, 10 mg and hyaluronidase-oysk	Procedure	HCPCS
J9360	Injection, vinblastine sulfate, 1 mg	Procedure	HCPCS
J9370	Vincristine sulfate, 1 mg	Procedure	HCPCS
J9371	Injection, vincristine sulfate liposome, 1 mg	Procedure	HCPCS
J9375	Vincristine sulfate, 2 mg	Procedure	HCPCS
J9380	Vincristine sulfate, 5 mg	Procedure	HCPCS
J9390	Vinorelbine tartrate, per 10 mg	Procedure	HCPCS
J9999	Not otherwise classified, antineoplastic drugs	Procedure	HCPCS
Q2025	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
Q2043	Sipuleucel-T, minimum of 50 million autologous CD54+ cells activated with PAP-GM-CSF, including leukapheresis and all other preparatory procedures, per infusion	Procedure	HCPCS
Q2048	Injection, doxorubicin hydrochloride, liposomal, DOXIL, 10 mg	Procedure	HCPCS
Q2049	Injection, doxorubicin HCl, liposomal, imported Lipodox, 10 mg	Procedure	HCPCS
Q2050	Injection, doxorubicin HCl, liposomal, not otherwise specified, 10 mg	Procedure	HCPCS
Q5112	Injection, trastuzumab-dttb, biosimilar, (Ontruzant), 10 mg	Procedure	HCPCS
Q5113	Injection, trastuzumab-pkrb, biosimilar, (Herzuma), 10 mg	Procedure	HCPCS
Q5114	Injection, Trastuzumab-dkst, biosimilar, (Ogivri), 10 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
Q5115	Injection, rituximab-abbs, biosimilar, (Truxima), 10 mg	Procedure	HCPCS
Q5116	Injection, trastuzumab-qyyp, biosimilar, (Trazimera), 10 mg	Procedure	HCPCS
Q5117	Injection, trastuzumab-anns, biosimilar, (Kanjinti), 10 mg	Procedure	HCPCS
Q9979	Injection, Alemtuzumab, 1 mg	Procedure	HCPCS
S0087	Injection, alemtuzumab, 30 mg	Procedure	HCPCS
S0088	Imatinib, 100 mg	Procedure	HCPCS
S0108	Mercaptopurine, oral, 50 mg	Procedure	HCPCS
S0115	Bortezomib, 3.5 mg	Procedure	HCPCS
S0116	Bevacizumab, 100 mg	Procedure	HCPCS
S0168	Injection, azacitidine, 100 mg	Procedure	HCPCS
S0172	Chlorambucil, oral, 2 mg	Procedure	HCPCS
S0176	Hydroxyurea, oral, 500 mg	Procedure	HCPCS
S0178	Lomustine, oral, 10 mg	Procedure	HCPCS
S0182	Procarbazine HCl, oral, 50 mg	Procedure	HCPCS
T80.810	Extravasation of vesicant antineoplastic chemotherapy	Diagnosis	ICD-10-CM
T80.810A	Extravasation of vesicant antineoplastic chemotherapy, initial encounter	Diagnosis	ICD-10-CM
T80.810D	Extravasation of vesicant antineoplastic chemotherapy, subsequent encounter	Diagnosis	ICD-10-CM
XW03351	Introduction of Blinatumomab Antineoplastic Immunotherapy into Peripheral Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW033B3	Introduction of Cytarabine and Daunorubicin Liposome Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW033C3	Introduction of Engineered Autologous Chimeric Antigen Receptor T-cell Immunotherapy into Peripheral Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW033Q5	Introduction of Tagraxofusp-erzs Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW033S5	Introduction of Iobenguane I-131 Antineoplastic into Peripheral Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW04351	Introduction of Blinatumomab Antineoplastic Immunotherapy into Central Vein, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
XW043B3	Introduction of Cytarabine and Daunorubicin Liposome Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW043C3	Introduction of Engineered Autologous Chimeric Antigen Receptor T-cell Immunotherapy into Central Vein, Percutaneous Approach, New Technology Group 3	Procedure	ICD-10-PCS
XW043Q5	Introduction of Tagraxofusp-erzs Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW043S5	Introduction of Iobenguane I-131 Antineoplastic into Central Vein, Percutaneous Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW0DXL5	Introduction of Erdafitinib Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW0DXR5	Introduction of Venetoclax Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
XW0DXT5	Introduction of Ruxolitinib into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
XW0DXV5	Introduction of Gilteritinib Antineoplastic into Mouth and Pharynx, External Approach, New Technology Group 5	Procedure	ICD-10-PCS
Z51.1	Encounter for antineoplastic chemotherapy and immunotherapy	Diagnosis	ICD-10-CM
Z51.11	Encounter for antineoplastic chemotherapy	Diagnosis	ICD-10-CM
Z51.12	Encounter for antineoplastic immunotherapy	Diagnosis	ICD-10-CM
Immunosuppressant Treatment			
3E030WL	Introduction of Immunosuppressive into Peripheral Vein, Open	Procedure	ICD-10-PCS
3E033WL	Introduction of Immunosuppressive into Peripheral Vein, Percutaneous	Procedure	ICD-10-PCS
3E040WL	Introduction of Immunosuppressive into Central Vein, Open	Procedure	ICD-10-PCS
3E043WL	Introduction of Immunosuppressive into Central Vein, Percutaneous	Procedure	ICD-10-PCS
3E050WL	Introduction of Immunosuppressive into Peripheral Artery, Open	Procedure	ICD-10-PCS
3E053WL	Introduction of Immunosuppressive into Peripheral Artery, Percutaneous	Procedure	ICD-10-PCS
3E060WL	Introduction of Immunosuppressive into Central Artery, Open	Procedure	ICD-10-PCS
3E063WL	Introduction of Immunosuppressive into Central Artery, Percutaneous	Procedure	ICD-10-PCS
4153F	Combination peginterferon and ribavirin therapy prescribed (HEP-C)	Procedure	CPT-2
90378	Respiratory syncytial virus, monoclonal antibody, recombinant, for intramuscular use, 50 mg, each	Procedure	CPT-4
C9006	Injection, tacrolimus, per 5 mg (1 amp)	Procedure	HCPCS
C9020	Sirolimus tablet, 1 mg	Procedure	HCPCS
C9029	Injection, guselkumab, 1 mg	Procedure	HCPCS
C9042	Injection, bendamustine HCl (Belrapzo), 1 mg	Procedure	HCPCS
C9045	Injection, moxetumomab pasudotox-tdfk, 0.01 mg	Procedure	HCPCS
C9106	Sirolimus, per 1 mg/ml	Procedure	HCPCS
C9126	Injection natalizumab per 5 mg	Procedure	HCPCS
C9211	Injection, alefacept, for intravenous use, per 7.5 mg	Procedure	HCPCS
C9212	Injection, alefacept, for intramuscular use, per 7.5 mg	Procedure	HCPCS
C9230	Injection, abatacept, per 10 mg	Procedure	HCPCS
C9236	Injection, eculizumab, 10 mg	Procedure	HCPCS
C9249	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
C9261	Injection, ustekinumab, 1 mg	Procedure	HCPCS
C9264	Injection, tocilizumab, 1 mg	Procedure	HCPCS
C9286	Injection, belatacept, 1 mg	Procedure	HCPCS
C9436	Azathioprine, parenteral, brand name, per 100 mg	Procedure	HCPCS
C9438	Cyclosporine, oral, 100 mg, brand name	Procedure	HCPCS
C9487	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J0129	Injection, abatacept, 10 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0135	Injection, adalimumab, 20 mg	Procedure	HCPCS
J0215	Injection, alefacept, 0.5 mg	Procedure	HCPCS
J0480	Injection, basiliximab, 20 mg	Procedure	HCPCS
J0485	Injection, belatacept, 1 mg	Procedure	HCPCS
J0490	Injection, belimumab, 10 mg	Procedure	HCPCS

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Code	Description	Code Category	Code Type
J0593	Injection, lanadelumab-flyo, 1 mg (code may be used for Medicare when drug administered under direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0638	Injection, canakinumab, 1 mg	Procedure	HCPCS
J0717	Injection, certolizumab pegol, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J0718	Injection, certolizumab pegol, 1 mg	Procedure	HCPCS
J0897	Injection, denosumab, 1 mg	Procedure	HCPCS
J1300	Injection, eculizumab, 10 mg	Procedure	HCPCS
J1303	Injection, ravulizumab-cwvz, 10 mg	Procedure	HCPCS
J1438	Injection, etanercept, 25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J1595	Injection, glatiramer acetate, 20 mg	Procedure	HCPCS
J1600	Injection, gold sodium thiomalate, up to 50 mg	Procedure	HCPCS
J1602	Injection, golimumab, 1 mg, for intravenous use	Procedure	HCPCS
J1628	Injection, guselkumab, 1 mg	Procedure	HCPCS
J1745	Injection, infliximab, excludes biosimilar, 10 mg	Procedure	HCPCS
J1825	Injection, interferon beta-1a, 33 mcg	Procedure	HCPCS
J1826	Injection, interferon beta-1a, 30 mcg	Procedure	HCPCS
J1830	Injection interferon beta-1b, 0.25 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J2323	Injection, natalizumab, 1 mg	Procedure	HCPCS
J2350	Injection, ocrelizumab, 1 mg	Procedure	HCPCS
J2504	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
J2793	Injection, rilonacept, 1 mg	Procedure	HCPCS
J2860	Injection, siltuximab, 10 mg	Procedure	HCPCS
J2910	Injection, aurothioglucose, up to 50 mg	Procedure	HCPCS
J3031	Injection, fremanezumab-vfrm, 1 mg (code may be used for Medicare when drug administered under the direct supervision of a physician, not for use when drug is self-administered)	Procedure	HCPCS
J3111	Injection, romosozumab-aqqg, 1 mg	Procedure	HCPCS
J3245	Injection, tildrakizumab, 1 mg	Procedure	HCPCS
J3262	Injection, tocilizumab, 1 mg	Procedure	HCPCS
J3357	Ustekinumab, for subcutaneous injection, 1 mg	Procedure	HCPCS
J3358	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
J3380	Injection, vedolizumab, 1 mg	Procedure	HCPCS
J7500	Azathioprine, oral, 50 mg	Procedure	HCPCS
J7501	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
J7502	Cyclosporine, oral, 100 mg	Procedure	HCPCS
J7503	Tacrolimus, extended release, (Envarsus XR), oral, 0.25 mg	Procedure	HCPCS
J7505	Muromonab-CD3, parenteral, 5 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
J7507	Tacrolimus, oral, per 1 mg	Procedure	HCPCS
J7508	Tacrolimus, extended release, (Astagraf XL), oral, 0.1 mg	Procedure	HCPCS
J7513	Daclizumab, parenteral, 25 mg	Procedure	HCPCS
J7515	Cyclosporine, oral, 25 mg	Procedure	HCPCS
J7516	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
J7517	Mycophenolate mofetil, oral, 250 mg	Procedure	HCPCS
J7520	Sirolimus, oral, 1 mg	Procedure	HCPCS
J7525	Tacrolimus, parenteral, 5 mg	Procedure	HCPCS
J7599	Immunosuppressive drug, not otherwise classified	Procedure	HCPCS
J9119	Injection, cemiplimab-rwlc, 1 mg	Procedure	HCPCS
J9204	Injection, mogamulizumab-kpkc, 1 mg	Procedure	HCPCS
J9210	Injection, emapalumab-lzsg, 1 mg	Procedure	HCPCS
J9212	Injection, interferon alfacon-1, recombinant, 1 mcg	Procedure	HCPCS
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9215	Injection, interferon, alfa-N3, (human leukocyte derived), 250,000 IU	Procedure	HCPCS
J9216	Injection, interferon, gamma 1-b, 3 million units	Procedure	HCPCS
J9271	Injection, pembrolizumab, 1 mg	Procedure	HCPCS
K0119	Azathioprine, oral, tab, 50 mg	Procedure	HCPCS
K0120	Azathioprine, parenteral, 100 mg	Procedure	HCPCS
K0122	Cyclosporine, parenteral, 250 mg	Procedure	HCPCS
K0412	Mycophenolate mofetil, oral, 250 mg (CellCept)	Procedure	HCPCS
Q2010	Injection, glatiramer acetate, per dose	Procedure	HCPCS
Q2012	Injection, pegademase bovine, 25 IU	Procedure	HCPCS
Q2019	Injection, basiliximab, 20 mg	Procedure	HCPCS
Q2044	Injection, belimumab, 10 mg	Procedure	HCPCS
Q3025	Injection, interferon beta-1a, 11 mcg for intramuscular use	Procedure	HCPCS
Q3026	Injection, interferon beta-1a, 11 mcg for subcutaneous use	Procedure	HCPCS
Q3027	Injection, interferon beta-1a, 1 mcg for intramuscular use	Procedure	HCPCS
Q3028	Injection, interferon beta-1a, 1 mcg for subcutaneous use	Procedure	HCPCS
Q4079	Injection, natalizumab, 1 mg	Procedure	HCPCS
Q5102	Injection, infliximab, biosimilar, 10 mg	Procedure	HCPCS
Q5103	Injection, infliximab-dyyb, biosimilar, (Inflectra), 10 mg	Procedure	HCPCS
Q5104	Injection, infliximab-abda, biosimilar, (Renflexis), 10 mg	Procedure	HCPCS
Q5107	Injection, bevacizumab-awwb, biosimilar, (Mvasi), 10 mg	Procedure	HCPCS
Q5109	Injection, infliximab-qbtx, biosimilar, (Ixifi), 10 mg	Procedure	HCPCS
Q5112	Injection, trastuzumab-dttb, biosimilar, (Ontruzant), 10 mg	Procedure	HCPCS
Q5113	Injection, trastuzumab-pkrb, biosimilar, (Herzuma), 10 mg	Procedure	HCPCS
Q5114	Injection, Trastuzumab-dkst, biosimilar, (Ogivri), 10 mg	Procedure	HCPCS
Q5115	Injection, rituximab-abbs, biosimilar, (Truxima), 10 mg	Procedure	HCPCS
Q5116	Injection, trastuzumab-qyyp, biosimilar, (Trazimera), 10 mg	Procedure	HCPCS
Q5117	Injection, trastuzumab-anns, biosimilar, (Kanjinti), 10 mg	Procedure	HCPCS
Q5118	Injection, bevacizumab-bvzr, biosimilar, (Zirabev), 10 mg	Procedure	HCPCS
Q5119	Injection, rituximab-pvvr, biosimilar, (RUXIENCE), 10 mg	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Q5121	Injection, infliximab-axxq, biosimilar, (AVSOLA), 10 mg	Procedure	HCPCS
Q9989	Ustekinumab, for intravenous injection, 1 mg	Procedure	HCPCS
S0145	Injection, PEGylated interferon alfa-2A, 180 mcg per ml	Procedure	HCPCS
S0146	Injection, pegylated interferon alfa-2b, 10 mcg per 0.5 ml	Procedure	HCPCS
S0148	Injection, PEGylated interferon alfa-2B, 10 mcg	Procedure	HCPCS
S0162	Injection, efalizumab, 125 mg	Procedure	HCPCS
S0193	Injection alefacept, 7.5 mg (includes dose packaging)	Procedure	HCPCS
Rheumatological Inflammatory Conditions			
D86.0	Sarcoidosis of lung	Diagnosis	ICD-10-CM
D86.1	Sarcoidosis of lymph nodes	Diagnosis	ICD-10-CM
D86.2	Sarcoidosis of lung with sarcoidosis of lymph nodes	Diagnosis	ICD-10-CM
D86.3	Sarcoidosis of skin	Diagnosis	ICD-10-CM
D86.81	Sarcoid meningitis	Diagnosis	ICD-10-CM
D86.82	Multiple cranial nerve palsies in sarcoidosis	Diagnosis	ICD-10-CM
D86.83	Sarcoid iridocyclitis	Diagnosis	ICD-10-CM
D86.84	Sarcoid pyelonephritis	Diagnosis	ICD-10-CM
D86.85	Sarcoid myocarditis	Diagnosis	ICD-10-CM
D86.86	Sarcoid arthropathy	Diagnosis	ICD-10-CM
D86.87	Sarcoid myositis	Diagnosis	ICD-10-CM
D86.89	Sarcoidosis of other sites	Diagnosis	ICD-10-CM
D86.9	Sarcoidosis, unspecified	Diagnosis	ICD-10-CM
E85.0	Non-neuropathic hereditary familial amyloidosis	Diagnosis	ICD-10-CM
E85.1	Neuropathic hereditary familial amyloidosis	Diagnosis	ICD-10-CM
E85.2	Hereditary familial amyloidosis, unspecified	Diagnosis	ICD-10-CM
E85.3	Secondary systemic amyloidosis	Diagnosis	ICD-10-CM
E85.4	Organ-limited amyloidosis	Diagnosis	ICD-10-CM
E85.81	Light chain (AL) amyloidosis	Diagnosis	ICD-10-CM
E85.82	Wild-type transthyretin-related (ATTR) amyloidosis	Diagnosis	ICD-10-CM
E85.89	Other amyloidosis	Diagnosis	ICD-10-CM
E85.9	Amyloidosis, unspecified	Diagnosis	ICD-10-CM
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
G36.0	Neuromyelitis optica [Devic]	Diagnosis	ICD-10-CM
G37.0	Diffuse sclerosis of central nervous system	Diagnosis	ICD-10-CM
G37.1	Central demyelination of corpus callosum	Diagnosis	ICD-10-CM
G37.2	Central pontine myelinolysis	Diagnosis	ICD-10-CM
G37.3	Acute transverse myelitis in demyelinating disease of central nervous system	Diagnosis	ICD-10-CM
G37.4	Subacute necrotizing myelitis of central nervous system	Diagnosis	ICD-10-CM
G37.5	Concentric sclerosis [Balo] of central nervous system	Diagnosis	ICD-10-CM
G37.8	Other specified demyelinating diseases of central nervous system	Diagnosis	ICD-10-CM
G61.81	Chronic inflammatory demyelinating polyneuritis	Diagnosis	ICD-10-CM
G61.82	Multifocal motor neuropathy	Diagnosis	ICD-10-CM
G61.89	Other inflammatory polyneuropathies	Diagnosis	ICD-10-CM
G61.9	Inflammatory polyneuropathy, unspecified	Diagnosis	ICD-10-CM
G62.2	Polyneuropathy due to other toxic agents	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
G62.81	Critical illness polyneuropathy	Diagnosis	ICD-10-CM
G63	Polyneuropathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
I40.8	Other acute myocarditis	Diagnosis	ICD-10-CM
I40.9	Acute myocarditis, unspecified	Diagnosis	ICD-10-CM
I41	Myocarditis in diseases classified elsewhere	Diagnosis	ICD-10-CM
J67.9	Hypersensitivity pneumonitis due to unspecified organic dust	Diagnosis	ICD-10-CM
J84.01	Alveolar proteinosis	Diagnosis	ICD-10-CM
J84.02	Pulmonary alveolar microlithiasis	Diagnosis	ICD-10-CM
J84.09	Other alveolar and parieto-alveolar conditions	Diagnosis	ICD-10-CM
J84.111	Idiopathic interstitial pneumonia, not otherwise specified	Diagnosis	ICD-10-CM
J84.112	Idiopathic pulmonary fibrosis	Diagnosis	ICD-10-CM
J84.113	Idiopathic non-specific interstitial pneumonitis	Diagnosis	ICD-10-CM
J84.114	Acute interstitial pneumonitis	Diagnosis	ICD-10-CM
J84.115	Respiratory bronchiolitis interstitial lung disease	Diagnosis	ICD-10-CM
J84.116	Cryptogenic organizing pneumonia	Diagnosis	ICD-10-CM
J84.117	Desquamative interstitial pneumonia	Diagnosis	ICD-10-CM
J84.2	Lymphoid interstitial pneumonia	Diagnosis	ICD-10-CM
J84.81	Lymphangioleiomyomatosis	Diagnosis	ICD-10-CM
J84.82	Adult pulmonary Langerhans cell histiocytosis	Diagnosis	ICD-10-CM
J84.83	Surfactant mutations of the lung	Diagnosis	ICD-10-CM
J84.841	Neuroendocrine cell hyperplasia of infancy	Diagnosis	ICD-10-CM
J84.842	Pulmonary interstitial glycogenosis	Diagnosis	ICD-10-CM
J84.843	Alveolar capillary dysplasia with vein misalignment	Diagnosis	ICD-10-CM
J84.848	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
K50.00	Crohn's disease of small intestine without complications	Diagnosis	ICD-10-CM
K50.011	Crohn's disease of small intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.012	Crohn's disease of small intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.013	Crohn's disease of small intestine with fistula	Diagnosis	ICD-10-CM
K50.014	Crohn's disease of small intestine with abscess	Diagnosis	ICD-10-CM
K50.018	Crohn's disease of small intestine with other complication	Diagnosis	ICD-10-CM
K50.019	Crohn's disease of small intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.10	Crohn's disease of large intestine without complications	Diagnosis	ICD-10-CM
K50.111	Crohn's disease of large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.112	Crohn's disease of large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.113	Crohn's disease of large intestine with fistula	Diagnosis	ICD-10-CM
K50.114	Crohn's disease of large intestine with abscess	Diagnosis	ICD-10-CM
K50.118	Crohn's disease of large intestine with other complication	Diagnosis	ICD-10-CM
K50.119	Crohn's disease of large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.80	Crohn's disease of both small and large intestine without complications	Diagnosis	ICD-10-CM
K50.811	Crohn's disease of both small and large intestine with rectal bleeding	Diagnosis	ICD-10-CM
K50.812	Crohn's disease of both small and large intestine with intestinal obstruction	Diagnosis	ICD-10-CM
K50.813	Crohn's disease of both small and large intestine with fistula	Diagnosis	ICD-10-CM
K50.814	Crohn's disease of both small and large intestine with abscess	Diagnosis	ICD-10-CM
K50.818	Crohn's disease of both small and large intestine with other complication	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
K50.819	Crohn's disease of both small and large intestine with unspecified complications	Diagnosis	ICD-10-CM
K50.90	Crohn's disease, unspecified, without complications	Diagnosis	ICD-10-CM
K50.911	Crohn's disease, unspecified, with rectal bleeding	Diagnosis	ICD-10-CM
K50.912	Crohn's disease, unspecified, with intestinal obstruction	Diagnosis	ICD-10-CM
K50.913	Crohn's disease, unspecified, with fistula	Diagnosis	ICD-10-CM
K50.914	Crohn's disease, unspecified, with abscess	Diagnosis	ICD-10-CM
K50.918	Crohn's disease, unspecified, with other complication	Diagnosis	ICD-10-CM
K50.919	Crohn's disease, unspecified, with unspecified complications	Diagnosis	ICD-10-CM
K51.00	Ulcerative (chronic) pancolitis without complications	Diagnosis	ICD-10-CM
K51.011	Ulcerative (chronic) pancolitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.012	Ulcerative (chronic) pancolitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.013	Ulcerative (chronic) pancolitis with fistula	Diagnosis	ICD-10-CM
K51.014	Ulcerative (chronic) pancolitis with abscess	Diagnosis	ICD-10-CM
K51.018	Ulcerative (chronic) pancolitis with other complication	Diagnosis	ICD-10-CM
K51.019	Ulcerative (chronic) pancolitis with unspecified complications	Diagnosis	ICD-10-CM
K51.20	Ulcerative (chronic) proctitis without complications	Diagnosis	ICD-10-CM
K51.211	Ulcerative (chronic) proctitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.212	Ulcerative (chronic) proctitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.213	Ulcerative (chronic) proctitis with fistula	Diagnosis	ICD-10-CM
K51.214	Ulcerative (chronic) proctitis with abscess	Diagnosis	ICD-10-CM
K51.218	Ulcerative (chronic) proctitis with other complication	Diagnosis	ICD-10-CM
K51.219	Ulcerative (chronic) proctitis with unspecified complications	Diagnosis	ICD-10-CM
K51.30	Ulcerative (chronic) rectosigmoiditis without complications	Diagnosis	ICD-10-CM
K51.311	Ulcerative (chronic) rectosigmoiditis with rectal bleeding	Diagnosis	ICD-10-CM
K51.312	Ulcerative (chronic) rectosigmoiditis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.313	Ulcerative (chronic) rectosigmoiditis with fistula	Diagnosis	ICD-10-CM
K51.314	Ulcerative (chronic) rectosigmoiditis with abscess	Diagnosis	ICD-10-CM
K51.318	Ulcerative (chronic) rectosigmoiditis with other complication	Diagnosis	ICD-10-CM
K51.319	Ulcerative (chronic) rectosigmoiditis with unspecified complications	Diagnosis	ICD-10-CM
K51.40	Inflammatory polyps of colon without complications	Diagnosis	ICD-10-CM
K51.411	Inflammatory polyps of colon with rectal bleeding	Diagnosis	ICD-10-CM
K51.412	Inflammatory polyps of colon with intestinal obstruction	Diagnosis	ICD-10-CM
K51.413	Inflammatory polyps of colon with fistula	Diagnosis	ICD-10-CM
K51.414	Inflammatory polyps of colon with abscess	Diagnosis	ICD-10-CM
K51.418	Inflammatory polyps of colon with other complication	Diagnosis	ICD-10-CM
K51.419	Inflammatory polyps of colon with unspecified complications	Diagnosis	ICD-10-CM
K51.50	Left sided colitis without complications	Diagnosis	ICD-10-CM
K51.511	Left sided colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.512	Left sided colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.513	Left sided colitis with fistula	Diagnosis	ICD-10-CM
K51.514	Left sided colitis with abscess	Diagnosis	ICD-10-CM
K51.518	Left sided colitis with other complication	Diagnosis	ICD-10-CM
K51.519	Left sided colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.80	Other ulcerative colitis without complications	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
K51.811	Other ulcerative colitis with rectal bleeding	Diagnosis	ICD-10-CM
K51.812	Other ulcerative colitis with intestinal obstruction	Diagnosis	ICD-10-CM
K51.813	Other ulcerative colitis with fistula	Diagnosis	ICD-10-CM
K51.814	Other ulcerative colitis with abscess	Diagnosis	ICD-10-CM
K51.818	Other ulcerative colitis with other complication	Diagnosis	ICD-10-CM
K51.819	Other ulcerative colitis with unspecified complications	Diagnosis	ICD-10-CM
K51.90	Ulcerative colitis, unspecified, without complications	Diagnosis	ICD-10-CM
K51.911	Ulcerative colitis, unspecified with rectal bleeding	Diagnosis	ICD-10-CM
K51.912	Ulcerative colitis, unspecified with intestinal obstruction	Diagnosis	ICD-10-CM
K51.913	Ulcerative colitis, unspecified with fistula	Diagnosis	ICD-10-CM
K51.914	Ulcerative colitis, unspecified with abscess	Diagnosis	ICD-10-CM
K51.918	Ulcerative colitis, unspecified with other complication	Diagnosis	ICD-10-CM
K51.919	Ulcerative colitis, unspecified with unspecified complications	Diagnosis	ICD-10-CM
K52.0	Gastroenteritis and colitis due to radiation	Diagnosis	ICD-10-CM
K52.1	Toxic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.21	Food protein-induced enterocolitis syndrome	Diagnosis	ICD-10-CM
K52.22	Food protein-induced enteropathy	Diagnosis	ICD-10-CM
K52.29	Other allergic and dietetic gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.81	Eosinophilic gastritis or gastroenteritis	Diagnosis	ICD-10-CM
K52.82	Eosinophilic colitis	Diagnosis	ICD-10-CM
K52.89	Other specified noninfective gastroenteritis and colitis	Diagnosis	ICD-10-CM
K52.9	Noninfective gastroenteritis and colitis, unspecified	Diagnosis	ICD-10-CM
K55.011	Focal (segmental) acute (reversible) ischemia of small intestine	Diagnosis	ICD-10-CM
K55.012	Diffuse acute (reversible) ischemia of small intestine	Diagnosis	ICD-10-CM
K55.019	Acute (reversible) ischemia of small intestine, extent unspecified	Diagnosis	ICD-10-CM
K55.1	Chronic vascular disorders of intestine	Diagnosis	ICD-10-CM
K55.9	Vascular disorder of intestine, unspecified	Diagnosis	ICD-10-CM
L40.0	Psoriasis vulgaris	Diagnosis	ICD-10-CM
L40.1	Generalized pustular psoriasis	Diagnosis	ICD-10-CM
L93.0	Discoid lupus erythematosus	Diagnosis	ICD-10-CM
L93.1	Subacute cutaneous lupus erythematosus	Diagnosis	ICD-10-CM
L93.2	Other local lupus erythematosus	Diagnosis	ICD-10-CM
M02	Postinfective and reactive arthropathies	Diagnosis	ICD-10-CM
M02.0	Arthropathy following intestinal bypass	Diagnosis	ICD-10-CM
M02.00	Arthropathy following intestinal bypass, unspecified site	Diagnosis	ICD-10-CM
M02.01	Arthropathy following intestinal bypass, shoulder	Diagnosis	ICD-10-CM
M02.011	Arthropathy following intestinal bypass, right shoulder	Diagnosis	ICD-10-CM
M02.012	Arthropathy following intestinal bypass, left shoulder	Diagnosis	ICD-10-CM
M02.019	Arthropathy following intestinal bypass, unspecified shoulder	Diagnosis	ICD-10-CM
M02.02	Arthropathy following intestinal bypass, elbow	Diagnosis	ICD-10-CM
M02.021	Arthropathy following intestinal bypass, right elbow	Diagnosis	ICD-10-CM
M02.022	Arthropathy following intestinal bypass, left elbow	Diagnosis	ICD-10-CM
M02.029	Arthropathy following intestinal bypass, unspecified elbow	Diagnosis	ICD-10-CM
M02.03	Arthropathy following intestinal bypass, wrist	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M02.031	Arthropathy following intestinal bypass, right wrist	Diagnosis	ICD-10-CM
M02.032	Arthropathy following intestinal bypass, left wrist	Diagnosis	ICD-10-CM
M02.039	Arthropathy following intestinal bypass, unspecified wrist	Diagnosis	ICD-10-CM
M02.04	Arthropathy following intestinal bypass, hand	Diagnosis	ICD-10-CM
M02.041	Arthropathy following intestinal bypass, right hand	Diagnosis	ICD-10-CM
M02.042	Arthropathy following intestinal bypass, left hand	Diagnosis	ICD-10-CM
M02.049	Arthropathy following intestinal bypass, unspecified hand	Diagnosis	ICD-10-CM
M02.05	Arthropathy following intestinal bypass, hip	Diagnosis	ICD-10-CM
M02.051	Arthropathy following intestinal bypass, right hip	Diagnosis	ICD-10-CM
M02.052	Arthropathy following intestinal bypass, left hip	Diagnosis	ICD-10-CM
M02.059	Arthropathy following intestinal bypass, unspecified hip	Diagnosis	ICD-10-CM
M02.06	Arthropathy following intestinal bypass, knee	Diagnosis	ICD-10-CM
M02.061	Arthropathy following intestinal bypass, right knee	Diagnosis	ICD-10-CM
M02.062	Arthropathy following intestinal bypass, left knee	Diagnosis	ICD-10-CM
M02.069	Arthropathy following intestinal bypass, unspecified knee	Diagnosis	ICD-10-CM
M02.07	Arthropathy following intestinal bypass, ankle and foot	Diagnosis	ICD-10-CM
M02.071	Arthropathy following intestinal bypass, right ankle and foot	Diagnosis	ICD-10-CM
M02.072	Arthropathy following intestinal bypass, left ankle and foot	Diagnosis	ICD-10-CM
M02.079	Arthropathy following intestinal bypass, unspecified ankle and foot	Diagnosis	ICD-10-CM
M02.08	Arthropathy following intestinal bypass, vertebrae	Diagnosis	ICD-10-CM
M02.09	Arthropathy following intestinal bypass, multiple sites	Diagnosis	ICD-10-CM
M02.1	Postdysenteric arthropathy	Diagnosis	ICD-10-CM
M02.10	Postdysenteric arthropathy, unspecified site	Diagnosis	ICD-10-CM
M02.11	Postdysenteric arthropathy, shoulder	Diagnosis	ICD-10-CM
M02.111	Postdysenteric arthropathy, right shoulder	Diagnosis	ICD-10-CM
M02.112	Postdysenteric arthropathy, left shoulder	Diagnosis	ICD-10-CM
M02.119	Postdysenteric arthropathy, unspecified shoulder	Diagnosis	ICD-10-CM
M02.12	Postdysenteric arthropathy, elbow	Diagnosis	ICD-10-CM
M02.121	Postdysenteric arthropathy, right elbow	Diagnosis	ICD-10-CM
M02.122	Postdysenteric arthropathy, left elbow	Diagnosis	ICD-10-CM
M02.129	Postdysenteric arthropathy, unspecified elbow	Diagnosis	ICD-10-CM
M02.13	Postdysenteric arthropathy, wrist	Diagnosis	ICD-10-CM
M02.131	Postdysenteric arthropathy, right wrist	Diagnosis	ICD-10-CM
M02.132	Postdysenteric arthropathy, left wrist	Diagnosis	ICD-10-CM
M02.139	Postdysenteric arthropathy, unspecified wrist	Diagnosis	ICD-10-CM
M02.14	Postdysenteric arthropathy, hand	Diagnosis	ICD-10-CM
M02.141	Postdysenteric arthropathy, right hand	Diagnosis	ICD-10-CM
M02.142	Postdysenteric arthropathy, left hand	Diagnosis	ICD-10-CM
M02.149	Postdysenteric arthropathy, unspecified hand	Diagnosis	ICD-10-CM
M02.15	Postdysenteric arthropathy, hip	Diagnosis	ICD-10-CM
M02.151	Postdysenteric arthropathy, right hip	Diagnosis	ICD-10-CM
M02.152	Postdysenteric arthropathy, left hip	Diagnosis	ICD-10-CM
M02.159	Postdysenteric arthropathy, unspecified hip	Diagnosis	ICD-10-CM
M02.16	Postdysenteric arthropathy, knee	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M02.161	Postdysenteric arthropathy, right knee	Diagnosis	ICD-10-CM
M02.162	Postdysenteric arthropathy, left knee	Diagnosis	ICD-10-CM
M02.169	Postdysenteric arthropathy, unspecified knee	Diagnosis	ICD-10-CM
M02.17	Postdysenteric arthropathy, ankle and foot	Diagnosis	ICD-10-CM
M02.171	Postdysenteric arthropathy, right ankle and foot	Diagnosis	ICD-10-CM
M02.172	Postdysenteric arthropathy, left ankle and foot	Diagnosis	ICD-10-CM
M02.179	Postdysenteric arthropathy, unspecified ankle and foot	Diagnosis	ICD-10-CM
M02.18	Postdysenteric arthropathy, vertebrae	Diagnosis	ICD-10-CM
M02.19	Postdysenteric arthropathy, multiple sites	Diagnosis	ICD-10-CM
M02.2	Postimmunization arthropathy	Diagnosis	ICD-10-CM
M02.20	Postimmunization arthropathy, unspecified site	Diagnosis	ICD-10-CM
M02.21	Postimmunization arthropathy, shoulder	Diagnosis	ICD-10-CM
M02.211	Postimmunization arthropathy, right shoulder	Diagnosis	ICD-10-CM
M02.212	Postimmunization arthropathy, left shoulder	Diagnosis	ICD-10-CM
M02.219	Postimmunization arthropathy, unspecified shoulder	Diagnosis	ICD-10-CM
M02.22	Postimmunization arthropathy, elbow	Diagnosis	ICD-10-CM
M02.221	Postimmunization arthropathy, right elbow	Diagnosis	ICD-10-CM
M02.222	Postimmunization arthropathy, left elbow	Diagnosis	ICD-10-CM
M02.229	Postimmunization arthropathy, unspecified elbow	Diagnosis	ICD-10-CM
M02.23	Postimmunization arthropathy, wrist	Diagnosis	ICD-10-CM
M02.231	Postimmunization arthropathy, right wrist	Diagnosis	ICD-10-CM
M02.232	Postimmunization arthropathy, left wrist	Diagnosis	ICD-10-CM
M02.239	Postimmunization arthropathy, unspecified wrist	Diagnosis	ICD-10-CM
M02.24	Postimmunization arthropathy, hand	Diagnosis	ICD-10-CM
M02.241	Postimmunization arthropathy, right hand	Diagnosis	ICD-10-CM
M02.242	Postimmunization arthropathy, left hand	Diagnosis	ICD-10-CM
M02.249	Postimmunization arthropathy, unspecified hand	Diagnosis	ICD-10-CM
M02.25	Postimmunization arthropathy, hip	Diagnosis	ICD-10-CM
M02.251	Postimmunization arthropathy, right hip	Diagnosis	ICD-10-CM
M02.252	Postimmunization arthropathy, left hip	Diagnosis	ICD-10-CM
M02.259	Postimmunization arthropathy, unspecified hip	Diagnosis	ICD-10-CM
M02.26	Postimmunization arthropathy, knee	Diagnosis	ICD-10-CM
M02.261	Postimmunization arthropathy, right knee	Diagnosis	ICD-10-CM
M02.262	Postimmunization arthropathy, left knee	Diagnosis	ICD-10-CM
M02.269	Postimmunization arthropathy, unspecified knee	Diagnosis	ICD-10-CM
M02.27	Postimmunization arthropathy, ankle and foot	Diagnosis	ICD-10-CM
M02.271	Postimmunization arthropathy, right ankle and foot	Diagnosis	ICD-10-CM
M02.272	Postimmunization arthropathy, left ankle and foot	Diagnosis	ICD-10-CM
M02.279	Postimmunization arthropathy, unspecified ankle and foot	Diagnosis	ICD-10-CM
M02.28	Postimmunization arthropathy, vertebrae	Diagnosis	ICD-10-CM
M02.29	Postimmunization arthropathy, multiple sites	Diagnosis	ICD-10-CM
M02.3	Reiter's disease	Diagnosis	ICD-10-CM
M02.30	Reiter's disease, unspecified site	Diagnosis	ICD-10-CM
M02.31	Reiter's disease, shoulder	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M02.311	Reiter's disease, right shoulder	Diagnosis	ICD-10-CM
M02.312	Reiter's disease, left shoulder	Diagnosis	ICD-10-CM
M02.319	Reiter's disease, unspecified shoulder	Diagnosis	ICD-10-CM
M02.32	Reiter's disease, elbow	Diagnosis	ICD-10-CM
M02.321	Reiter's disease, right elbow	Diagnosis	ICD-10-CM
M02.322	Reiter's disease, left elbow	Diagnosis	ICD-10-CM
M02.329	Reiter's disease, unspecified elbow	Diagnosis	ICD-10-CM
M02.33	Reiter's disease, wrist	Diagnosis	ICD-10-CM
M02.331	Reiter's disease, right wrist	Diagnosis	ICD-10-CM
M02.332	Reiter's disease, left wrist	Diagnosis	ICD-10-CM
M02.339	Reiter's disease, unspecified wrist	Diagnosis	ICD-10-CM
M02.34	Reiter's disease, hand	Diagnosis	ICD-10-CM
M02.341	Reiter's disease, right hand	Diagnosis	ICD-10-CM
M02.342	Reiter's disease, left hand	Diagnosis	ICD-10-CM
M02.349	Reiter's disease, unspecified hand	Diagnosis	ICD-10-CM
M02.35	Reiter's disease, hip	Diagnosis	ICD-10-CM
M02.351	Reiter's disease, right hip	Diagnosis	ICD-10-CM
M02.352	Reiter's disease, left hip	Diagnosis	ICD-10-CM
M02.359	Reiter's disease, unspecified hip	Diagnosis	ICD-10-CM
M02.36	Reiter's disease, knee	Diagnosis	ICD-10-CM
M02.361	Reiter's disease, right knee	Diagnosis	ICD-10-CM
M02.362	Reiter's disease, left knee	Diagnosis	ICD-10-CM
M02.369	Reiter's disease, unspecified knee	Diagnosis	ICD-10-CM
M02.37	Reiter's disease, ankle and foot	Diagnosis	ICD-10-CM
M02.371	Reiter's disease, right ankle and foot	Diagnosis	ICD-10-CM
M02.372	Reiter's disease, left ankle and foot	Diagnosis	ICD-10-CM
M02.379	Reiter's disease, unspecified ankle and foot	Diagnosis	ICD-10-CM
M02.38	Reiter's disease, vertebrae	Diagnosis	ICD-10-CM
M02.39	Reiter's disease, multiple sites	Diagnosis	ICD-10-CM
M02.8	Other reactive arthropathies	Diagnosis	ICD-10-CM
M02.80	Other reactive arthropathies, unspecified site	Diagnosis	ICD-10-CM
M02.81	Other reactive arthropathies, shoulder	Diagnosis	ICD-10-CM
M02.811	Other reactive arthropathies, right shoulder	Diagnosis	ICD-10-CM
M02.812	Other reactive arthropathies, left shoulder	Diagnosis	ICD-10-CM
M02.819	Other reactive arthropathies, unspecified shoulder	Diagnosis	ICD-10-CM
M02.82	Other reactive arthropathies, elbow	Diagnosis	ICD-10-CM
M02.821	Other reactive arthropathies, right elbow	Diagnosis	ICD-10-CM
M02.822	Other reactive arthropathies, left elbow	Diagnosis	ICD-10-CM
M02.829	Other reactive arthropathies, unspecified elbow	Diagnosis	ICD-10-CM
M02.83	Other reactive arthropathies, wrist	Diagnosis	ICD-10-CM
M02.831	Other reactive arthropathies, right wrist	Diagnosis	ICD-10-CM
M02.832	Other reactive arthropathies, left wrist	Diagnosis	ICD-10-CM
M02.839	Other reactive arthropathies, unspecified wrist	Diagnosis	ICD-10-CM
M02.84	Other reactive arthropathies, hand	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M02.841	Other reactive arthropathies, right hand	Diagnosis	ICD-10-CM
M02.842	Other reactive arthropathies, left hand	Diagnosis	ICD-10-CM
M02.849	Other reactive arthropathies, unspecified hand	Diagnosis	ICD-10-CM
M02.85	Other reactive arthropathies, hip	Diagnosis	ICD-10-CM
M02.851	Other reactive arthropathies, right hip	Diagnosis	ICD-10-CM
M02.852	Other reactive arthropathies, left hip	Diagnosis	ICD-10-CM
M02.859	Other reactive arthropathies, unspecified hip	Diagnosis	ICD-10-CM
M02.86	Other reactive arthropathies, knee	Diagnosis	ICD-10-CM
M02.861	Other reactive arthropathies, right knee	Diagnosis	ICD-10-CM
M02.862	Other reactive arthropathies, left knee	Diagnosis	ICD-10-CM
M02.869	Other reactive arthropathies, unspecified knee	Diagnosis	ICD-10-CM
M02.87	Other reactive arthropathies, ankle and foot	Diagnosis	ICD-10-CM
M02.871	Other reactive arthropathies, right ankle and foot	Diagnosis	ICD-10-CM
M02.872	Other reactive arthropathies, left ankle and foot	Diagnosis	ICD-10-CM
M02.879	Other reactive arthropathies, unspecified ankle and foot	Diagnosis	ICD-10-CM
M02.88	Other reactive arthropathies, vertebrae	Diagnosis	ICD-10-CM
M02.89	Other reactive arthropathies, multiple sites	Diagnosis	ICD-10-CM
M02.9	Reactive arthropathy, unspecified	Diagnosis	ICD-10-CM
M04	Autoinflammatory syndromes	Diagnosis	ICD-10-CM
M04.1	Periodic fever syndromes	Diagnosis	ICD-10-CM
M04.2	Cryopyrin-associated periodic syndromes	Diagnosis	ICD-10-CM
M04.8	Other autoinflammatory syndromes	Diagnosis	ICD-10-CM
M04.9	Autoinflammatory syndrome, unspecified	Diagnosis	ICD-10-CM
M05	Rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M05.0	Felty's syndrome	Diagnosis	ICD-10-CM
M05.00	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M05.01	Felty's syndrome, shoulder	Diagnosis	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M05.02	Felty's syndrome, elbow	Diagnosis	ICD-10-CM
M05.021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM
M05.022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M05.03	Felty's syndrome, wrist	Diagnosis	ICD-10-CM
M05.031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05.032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M05.04	Felty's syndrome, hand	Diagnosis	ICD-10-CM
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.05	Felty's syndrome, hip	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M05.06	Felty's syndrome, knee	Diagnosis	ICD-10-CM
M05.061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05.062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M05.07	Felty's syndrome, ankle and foot	Diagnosis	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M05.1	Rheumatoid lung disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.10	Rheumatoid lung disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.11	Rheumatoid lung disease with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.111	Rheumatoid lung disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.112	Rheumatoid lung disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.119	Rheumatoid lung disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.12	Rheumatoid lung disease with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.121	Rheumatoid lung disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.122	Rheumatoid lung disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.129	Rheumatoid lung disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.13	Rheumatoid lung disease with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.131	Rheumatoid lung disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.132	Rheumatoid lung disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.139	Rheumatoid lung disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.14	Rheumatoid lung disease with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05.141	Rheumatoid lung disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.142	Rheumatoid lung disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.149	Rheumatoid lung disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.15	Rheumatoid lung disease with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.151	Rheumatoid lung disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.152	Rheumatoid lung disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.159	Rheumatoid lung disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.16	Rheumatoid lung disease with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.161	Rheumatoid lung disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.162	Rheumatoid lung disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.169	Rheumatoid lung disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.17	Rheumatoid lung disease with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.171	Rheumatoid lung disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.172	Rheumatoid lung disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.179	Rheumatoid lung disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.19	Rheumatoid lung disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.2	Rheumatoid vasculitis with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.21	Rheumatoid vasculitis with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.22	Rheumatoid vasculitis with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.23	Rheumatoid vasculitis with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.24	Rheumatoid vasculitis with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.25	Rheumatoid vasculitis with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.26	Rheumatoid vasculitis with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.27	Rheumatoid vasculitis with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.3	Rheumatoid heart disease with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.31	Rheumatoid heart disease with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.32	Rheumatoid heart disease with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.33	Rheumatoid heart disease with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.34	Rheumatoid heart disease with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.35	Rheumatoid heart disease with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.36	Rheumatoid heart disease with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.37	Rheumatoid heart disease with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.4	Rheumatoid myopathy with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.41	Rheumatoid myopathy with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.42	Rheumatoid myopathy with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.43	Rheumatoid myopathy with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.44	Rheumatoid myopathy with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.45	Rheumatoid myopathy with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.46	Rheumatoid myopathy with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.47	Rheumatoid myopathy with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.5	Rheumatoid polyneuropathy with rheumatoid arthritis	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.51	Rheumatoid polyneuropathy with rheumatoid arthritis of shoulder	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.52	Rheumatoid polyneuropathy with rheumatoid arthritis of elbow	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.53	Rheumatoid polyneuropathy with rheumatoid arthritis of wrist	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.54	Rheumatoid polyneuropathy with rheumatoid arthritis of hand	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.55	Rheumatoid polyneuropathy with rheumatoid arthritis of hip	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.56	Rheumatoid polyneuropathy with rheumatoid arthritis of knee	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.57	Rheumatoid polyneuropathy with rheumatoid arthritis of ankle and foot	Diagnosis	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.6	Rheumatoid arthritis with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.61	Rheumatoid arthritis of shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.62	Rheumatoid arthritis of elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.63	Rheumatoid arthritis of wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.64	Rheumatoid arthritis of hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.65	Rheumatoid arthritis of hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.66	Rheumatoid arthritis of knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.67	Rheumatoid arthritis of ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.7	Rheumatoid arthritis with rheumatoid factor without organ or systems involvement	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.71	Rheumatoid arthritis with rheumatoid factor of shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.72	Rheumatoid arthritis with rheumatoid factor of elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.73	Rheumatoid arthritis with rheumatoid factor of wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.74	Rheumatoid arthritis with rheumatoid factor of hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.75	Rheumatoid arthritis with rheumatoid factor of hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.76	Rheumatoid arthritis with rheumatoid factor of knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.77	Rheumatoid arthritis with rheumatoid factor of ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.8	Other rheumatoid arthritis with rheumatoid factor	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.81	Other rheumatoid arthritis with rheumatoid factor of shoulder	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.82	Other rheumatoid arthritis with rheumatoid factor of elbow	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.83	Other rheumatoid arthritis with rheumatoid factor of wrist	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.84	Other rheumatoid arthritis with rheumatoid factor of hand	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.85	Other rheumatoid arthritis with rheumatoid factor of hip	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.86	Other rheumatoid arthritis with rheumatoid factor of knee	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.87	Other rheumatoid arthritis with rheumatoid factor of ankle and foot	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.0	Rheumatoid arthritis without rheumatoid factor	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.01	Rheumatoid arthritis without rheumatoid factor, shoulder	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.02	Rheumatoid arthritis without rheumatoid factor, elbow	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M06.03	Rheumatoid arthritis without rheumatoid factor, wrist	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.04	Rheumatoid arthritis without rheumatoid factor, hand	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.05	Rheumatoid arthritis without rheumatoid factor, hip	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.06	Rheumatoid arthritis without rheumatoid factor, knee	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.07	Rheumatoid arthritis without rheumatoid factor, ankle and foot	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.2	Rheumatoid bursitis	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.21	Rheumatoid bursitis, shoulder	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.22	Rheumatoid bursitis, elbow	Diagnosis	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.23	Rheumatoid bursitis, wrist	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.24	Rheumatoid bursitis, hand	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.25	Rheumatoid bursitis, hip	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.26	Rheumatoid bursitis, knee	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.27	Rheumatoid bursitis, ankle and foot	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.3	Rheumatoid nodule	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.31	Rheumatoid nodule, shoulder	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M06.32	Rheumatoid nodule, elbow	Diagnosis	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M06.33	Rheumatoid nodule, wrist	Diagnosis	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.34	Rheumatoid nodule, hand	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.35	Rheumatoid nodule, hip	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.36	Rheumatoid nodule, knee	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.37	Rheumatoid nodule, ankle and foot	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.4	Inflammatory polyarthropathy	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M06.8	Other specified rheumatoid arthritis	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M06.81	Other specified rheumatoid arthritis, shoulder	Diagnosis	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.82	Other specified rheumatoid arthritis, elbow	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.83	Other specified rheumatoid arthritis, wrist	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M06.84	Other specified rheumatoid arthritis, hand	Diagnosis	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.85	Other specified rheumatoid arthritis, hip	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.86	Other specified rheumatoid arthritis, knee	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.87	Other specified rheumatoid arthritis, ankle and foot	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M12.00	Chronic postrheumatic arthropathy [Jaccoud], unspecified site	Diagnosis	ICD-10-CM
M30.0	Polyarteritis nodosa	Diagnosis	ICD-10-CM
M30.1	Polyarteritis with lung involvement [Churg-Strauss]	Diagnosis	ICD-10-CM
M30.2	Juvenile polyarteritis	Diagnosis	ICD-10-CM
M30.3	Mucocutaneous lymph node syndrome [Kawasaki]	Diagnosis	ICD-10-CM
M30.8	Other conditions related to polyarteritis nodosa	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angiitis	Diagnosis	ICD-10-CM
M31.1	Thrombotic microangiopathy	Diagnosis	ICD-10-CM
M31.2	Lethal midline granuloma	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M31.30	Wegener's granulomatosis without renal involvement	Diagnosis	ICD-10-CM
M31.31	Wegener's granulomatosis with renal involvement	Diagnosis	ICD-10-CM
M31.4	Aortic arch syndrome [Takayasu]	Diagnosis	ICD-10-CM
M31.5	Giant cell arteritis with polymyalgia rheumatica	Diagnosis	ICD-10-CM
M31.6	Other giant cell arteritis	Diagnosis	ICD-10-CM
M31.7	Microscopic polyangiitis	Diagnosis	ICD-10-CM
M31.8	Other specified necrotizing vasculopathies	Diagnosis	ICD-10-CM
M31.9	Necrotizing vasculopathy, unspecified	Diagnosis	ICD-10-CM
M32.0	Drug-induced systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.10	Systemic lupus erythematosus, organ or system involvement unspecified	Diagnosis	ICD-10-CM
M32.11	Endocarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.12	Pericarditis in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.13	Lung involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.19	Other organ or system involvement in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.8	Other forms of systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.9	Systemic lupus erythematosus, unspecified	Diagnosis	ICD-10-CM
M33.00	Juvenile dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.01	Juvenile dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.02	Juvenile dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M33.09	Juvenile dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.10	Other dermatomyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.11	Other dermatomyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.12	Other dermatomyositis with myopathy	Diagnosis	ICD-10-CM
M33.13	Other dermatomyositis without myopathy	Diagnosis	ICD-10-CM
M33.19	Other dermatomyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.20	Polymyositis, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.21	Polymyositis with respiratory involvement	Diagnosis	ICD-10-CM
M33.22	Polymyositis with myopathy	Diagnosis	ICD-10-CM
M33.29	Polymyositis with other organ involvement	Diagnosis	ICD-10-CM
M33.90	Dermatopolymyositis, unspecified, organ involvement unspecified	Diagnosis	ICD-10-CM
M33.91	Dermatopolymyositis, unspecified with respiratory involvement	Diagnosis	ICD-10-CM
M33.92	Dermatopolymyositis, unspecified with myopathy	Diagnosis	ICD-10-CM
M33.93	Dermatopolymyositis, unspecified without myopathy	Diagnosis	ICD-10-CM
M33.99	Dermatopolymyositis, unspecified with other organ involvement	Diagnosis	ICD-10-CM
M34.0	Progressive systemic sclerosis	Diagnosis	ICD-10-CM
M34.1	CR(E)ST syndrome	Diagnosis	ICD-10-CM
M34.2	Systemic sclerosis induced by drug and chemical	Diagnosis	ICD-10-CM
M34.81	Systemic sclerosis with lung involvement	Diagnosis	ICD-10-CM
M34.82	Systemic sclerosis with myopathy	Diagnosis	ICD-10-CM
M34.83	Systemic sclerosis with polyneuropathy	Diagnosis	ICD-10-CM
M34.89	Other systemic sclerosis	Diagnosis	ICD-10-CM
M34.9	Systemic sclerosis, unspecified	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
M35.00	Sjogren syndrome, unspecified	Diagnosis	ICD-10-CM
M35.01	Sjogren syndrome with keratoconjunctivitis	Diagnosis	ICD-10-CM
M35.02	Sjogren syndrome with lung involvement	Diagnosis	ICD-10-CM
M35.03	Sjogren syndrome with myopathy	Diagnosis	ICD-10-CM
M35.04	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.09	Sjogren syndrome with other organ involvement	Diagnosis	ICD-10-CM
M35.1	Other overlap syndromes	Diagnosis	ICD-10-CM
M35.2	Behcet's disease	Diagnosis	ICD-10-CM
M35.3	Polymyalgia rheumatica	Diagnosis	ICD-10-CM
M35.4	Diffuse (eosinophilic) fasciitis	Diagnosis	ICD-10-CM
M35.5	Multifocal fibrosclerosis	Diagnosis	ICD-10-CM
M35.6	Relapsing panniculitis [Weber-Christian]	Diagnosis	ICD-10-CM
M35.8	Other specified systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M35.9	Systemic involvement of connective tissue, unspecified	Diagnosis	ICD-10-CM
M36.0	Dermato(poly)myositis in neoplastic disease	Diagnosis	ICD-10-CM
M36.8	Systemic disorders of connective tissue in other diseases classified elsewhere	Diagnosis	ICD-10-CM
M46.00	Spinal enthesopathy, site unspecified	Diagnosis	ICD-10-CM
M46.01	Spinal enthesopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.02	Spinal enthesopathy, cervical region	Diagnosis	ICD-10-CM
M46.03	Spinal enthesopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.04	Spinal enthesopathy, thoracic region	Diagnosis	ICD-10-CM
M46.05	Spinal enthesopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.06	Spinal enthesopathy, lumbar region	Diagnosis	ICD-10-CM
M46.07	Spinal enthesopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.08	Spinal enthesopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.09	Spinal enthesopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M46.1	Sacroiliitis, not elsewhere classified	Diagnosis	ICD-10-CM
Steroid Diagnosis Procedure or Corticosteroid Dispensing			
J7509	Methylprednisolone, oral, per 4 mg	Procedure	HCPCS
J7510	Prednisolone, oral, per 5 mg	Procedure	HCPCS
J7512	Prednisone, immediate release or delayed release, oral, 1 mg	Procedure	HCPCS
J8540	Dexamethasone, oral, 0.25 mg	Procedure	HCPCS
Z79.52	Long term (current) use of systemic steroids	Diagnosis	ICD-10-CM
Z92.241	Personal history of systemic steroid therapy	Diagnosis	ICD-10-CM
Treatment Independent High Risk Comorbidities			
000780883	crizanolizumab-tmca	RX	ND
0210083	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210088	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210089	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021008C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
021008F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021008W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0210093	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0210098	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0210099	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021009W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02100A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02100J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02100K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02100K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02100Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02100Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02100Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02100ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02100ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0210344	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02103D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0210444	Bypass Coronary Artery, One Artery from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210483	Bypass Coronary Artery, One Artery from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210488	Bypass Coronary Artery, One Artery from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210489	Bypass Coronary Artery, One Artery from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048C	Bypass Coronary Artery, One Artery from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048F	Bypass Coronary Artery, One Artery from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021048W	Bypass Coronary Artery, One Artery from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210493	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210498	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0210499	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049C	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049F	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021049W	Bypass Coronary Artery, One Artery from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
02104A3	Bypass Coronary Artery, One Artery from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104A8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104A9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AC	Bypass Coronary Artery, One Artery from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AF	Bypass Coronary Artery, One Artery from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104AW	Bypass Coronary Artery, One Artery from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104D4	Bypass Coronary Artery, One Artery from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J3	Bypass Coronary Artery, One Artery from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104J9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JC	Bypass Coronary Artery, One Artery from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JF	Bypass Coronary Artery, One Artery from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104JW	Bypass Coronary Artery, One Artery from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K3	Bypass Coronary Artery, One Artery from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K8	Bypass Coronary Artery, One Artery from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104K9	Bypass Coronary Artery, One Artery from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KC	Bypass Coronary Artery, One Artery from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KF	Bypass Coronary Artery, One Artery from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104KW	Bypass Coronary Artery, One Artery from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z3	Bypass Coronary Artery, One Artery from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z8	Bypass Coronary Artery, One Artery from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104Z9	Bypass Coronary Artery, One Artery from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02104ZC	Bypass Coronary Artery, One Artery from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02104ZF	Bypass Coronary Artery, One Artery from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211083	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211088	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211089	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021108C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021108F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021108W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0211093	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0211098	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0211099	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021109W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02110A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02110J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
02110J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02110K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02110Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02110Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02110Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02110ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02110ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0211344	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02113D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0211444	Bypass Coronary Artery, Two Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211483	Bypass Coronary Artery, Two Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211488	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211489	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021148W	Bypass Coronary Artery, Two Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
0211493	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211498	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0211499	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149C	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149F	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021149W	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114A9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114AC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114AF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114AW	Bypass Coronary Artery, Two Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114D4	Bypass Coronary Artery, Two Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114J9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114JW	Bypass Coronary Artery, Two Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K3	Bypass Coronary Artery, Two Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114K9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02114KC	Bypass Coronary Artery, Two Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KF	Bypass Coronary Artery, Two Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114KW	Bypass Coronary Artery, Two Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z3	Bypass Coronary Artery, Two Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z8	Bypass Coronary Artery, Two Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114Z9	Bypass Coronary Artery, Two Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114ZC	Bypass Coronary Artery, Two Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02114ZF	Bypass Coronary Artery, Two Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212083	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0212088	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0212089	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021208C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021208F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021208W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0212093	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0212098	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0212099	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021209C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021209F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021209W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02120A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02120A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02120J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02120K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02120Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02120Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02120Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02120ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02120ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0212344	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02123D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0212444	Bypass Coronary Artery, Three Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0212483	Bypass Coronary Artery, Three Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212488	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212489	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021248W	Bypass Coronary Artery, Three Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212493	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212498	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0212499	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249C	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249F	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021249W	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124A9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124AW	Bypass Coronary Artery, Three Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124D4	Bypass Coronary Artery, Three Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124J9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02124JC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124JW	Bypass Coronary Artery, Three Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K3	Bypass Coronary Artery, Three Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124K9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KC	Bypass Coronary Artery, Three Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KF	Bypass Coronary Artery, Three Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124KW	Bypass Coronary Artery, Three Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z3	Bypass Coronary Artery, Three Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z8	Bypass Coronary Artery, Three Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124Z9	Bypass Coronary Artery, Three Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124ZC	Bypass Coronary Artery, Three Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02124ZF	Bypass Coronary Artery, Three Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213083	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213093	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0213098	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0213099	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021309C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021309F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021309W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
02130A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
02130J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02130K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02130KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02130Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Open Approach	Procedure	ICD-10-PCS
02130Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02130Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
02130ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
02130ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
0213344	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02133D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0213444	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213483	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213488	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213489	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021348W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213493	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213498	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0213499	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021349W	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134A9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02134AC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134AW	Bypass Coronary Artery, Four or More Arteries from Aorta with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134D4	Bypass Coronary Artery, Four or More Arteries from Coronary Vein with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134J9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134JW	Bypass Coronary Artery, Four or More Arteries from Aorta with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134K9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134KW	Bypass Coronary Artery, Four or More Arteries from Aorta with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z3	Bypass Coronary Artery, Four or More Arteries from Coronary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z8	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134Z9	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134ZC	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02134ZF	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270046	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027004Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0270056	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027005Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0270066	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027006Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0270076	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027007Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02700T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02700Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02700ZZ	Dilation of Coronary Artery, One Artery, Open Approach	Procedure	ICD-10-PCS
0270346	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027034Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0270356	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027035Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0270366	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027036Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0270376	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027037Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02703T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02703Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02703ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Approach	Procedure	ICD-10-PCS
0270446	Dilation of Coronary Artery, One Artery, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027044Z	Dilation of Coronary Artery, One Artery with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270456	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027045Z	Dilation of Coronary Artery, One Artery with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270466	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027046Z	Dilation of Coronary Artery, One Artery with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0270476	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027047Z	Dilation of Coronary Artery, One Artery with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02704D6	Dilation of Coronary Artery, One Artery, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704DZ	Dilation of Coronary Artery, One Artery with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704E6	Dilation of Coronary Artery, One Artery, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704EZ	Dilation of Coronary Artery, One Artery with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704F6	Dilation of Coronary Artery, One Artery, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704FZ	Dilation of Coronary Artery, One Artery with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704G6	Dilation of Coronary Artery, One Artery, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704GZ	Dilation of Coronary Artery, One Artery with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704T6	Dilation of Coronary Artery, One Artery, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704TZ	Dilation of Coronary Artery, One Artery with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704Z6	Dilation of Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02704ZZ	Dilation of Coronary Artery, One Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271046	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027104Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0271056	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027105Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0271066	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027106Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0271076	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027107Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02710EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02710T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02710Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02710ZZ	Dilation of Coronary Artery, Two Arteries, Open Approach	Procedure	ICD-10-PCS
0271346	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027134Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0271356	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027135Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0271366	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027136Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0271376	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027137Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02713G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02713T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02713Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02713ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0271446	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027144Z	Dilation of Coronary Artery, Two Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271456	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027145Z	Dilation of Coronary Artery, Two Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271466	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027146Z	Dilation of Coronary Artery, Two Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0271476	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027147Z	Dilation of Coronary Artery, Two Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714D6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714DZ	Dilation of Coronary Artery, Two Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714EZ	Dilation of Coronary Artery, Two Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714F6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714FZ	Dilation of Coronary Artery, Two Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714G6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714GZ	Dilation of Coronary Artery, Two Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714T6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02714TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714Z6	Dilation of Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02714ZZ	Dilation of Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272046	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027204Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0272056	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027205Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0272066	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027206Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0272076	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027207Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02720T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02720Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02720ZZ	Dilation of Coronary Artery, Three Arteries, Open Approach	Procedure	ICD-10-PCS
0272346	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
027234Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0272356	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027235Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0272366	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027236Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0272376	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027237Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02723T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02723Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02723ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0272446	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027244Z	Dilation of Coronary Artery, Three Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272456	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027245Z	Dilation of Coronary Artery, Three Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0272466	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027246Z	Dilation of Coronary Artery, Three Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0272476	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027247Z	Dilation of Coronary Artery, Three Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724D6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724DZ	Dilation of Coronary Artery, Three Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724E6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724EZ	Dilation of Coronary Artery, Three Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724F6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724FZ	Dilation of Coronary Artery, Three Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724G6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724GZ	Dilation of Coronary Artery, Three Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724T6	Dilation of Coronary Artery, Three Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724TZ	Dilation of Coronary Artery, Three Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724Z6	Dilation of Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02724ZZ	Dilation of Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273046	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
027304Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
0273056	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027305Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
0273066	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027306Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0273076	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
027307Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
02730T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Open Approach	Procedure	ICD-10-PCS
02730Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02730ZZ	Dilation of Coronary Artery, Four or More Arteries, Open Approach	Procedure	ICD-10-PCS
0273346	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
027334Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
0273356	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027335Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0273366	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027336Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
0273376	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
027337Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02733DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Approach	Procedure	ICD-10-PCS
02733T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Approach	Procedure	ICD-10-PCS
02733Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02733ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
0273446	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027344Z	Dilation of Coronary Artery, Four or More Arteries with Drug-eluting Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273456	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027345Z	Dilation of Coronary Artery, Four or More Arteries with Two Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273466	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027346Z	Dilation of Coronary Artery, Four or More Arteries with Three Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0273476	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
027347Z	Dilation of Coronary Artery, Four or More Arteries with Four or More Drug-eluting Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734D6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734DZ	Dilation of Coronary Artery, Four or More Arteries with Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734E6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02734EZ	Dilation of Coronary Artery, Four or More Arteries with Two Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734F6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734FZ	Dilation of Coronary Artery, Four or More Arteries with Three Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734G6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734GZ	Dilation of Coronary Artery, Four or More Arteries with Four or More Intraluminal Devices, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734T6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734TZ	Dilation of Coronary Artery, Four or More Arteries with Radioactive Intraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734Z6	Dilation of Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02734ZZ	Dilation of Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C00Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C00ZZ	Extirpation of Matter from Coronary Artery, One Artery, Open Approach	Procedure	ICD-10-PCS
02C03Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C03ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Approach	Procedure	ICD-10-PCS
02C04Z6	Extirpation of Matter from Coronary Artery, One Artery, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C04ZZ	Extirpation of Matter from Coronary Artery, One Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C10Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C10ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Open Approach	Procedure	ICD-10-PCS
02C13Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C13ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C14Z6	Extirpation of Matter from Coronary Artery, Two Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C14ZZ	Extirpation of Matter from Coronary Artery, Two Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C20Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C20ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Open Approach	Procedure	ICD-10-PCS
02C23Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C23ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C24Z6	Extirpation of Matter from Coronary Artery, Three Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
02C24ZZ	Extirpation of Matter from Coronary Artery, Three Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C30Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Open Approach	Procedure	ICD-10-PCS
02C30ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Open Approach	Procedure	ICD-10-PCS
02C33Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Approach	Procedure	ICD-10-PCS
02C33ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Approach	Procedure	ICD-10-PCS
02C34Z6	Extirpation of Matter from Coronary Artery, Four or More Arteries, Bifurcation, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02C34ZZ	Extirpation of Matter from Coronary Artery, Four or More Arteries, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
02Q50ZZ	Repair Atrial Septum, Open Approach	Procedure	ICD-10-PCS
02QM0ZZ	Repair Ventricular Septum, Open Approach	Procedure	ICD-10-PCS
02U507Z	Supplement Atrial Septum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02U50JZ	Supplement Atrial Septum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02U53JZ	Supplement Atrial Septum with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
02UM07Z	Supplement Ventricular Septum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
02UM0JZ	Supplement Ventricular Septum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
02UM3JZ	Supplement Ventricular Septum with Synthetic Substitute, Percutaneous Approach	Procedure	ICD-10-PCS
0D16079	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160J9	Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D160ZB	Bypass Stomach to Ileum, Open Approach	Procedure	ICD-10-PCS
0D160ZL	Bypass Stomach to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D16879	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168J9	Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JB	Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168Z9	Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZB	Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZL	Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D19079	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JB	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190Z9	Bypass Duodenum to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D190ZA	Bypass Duodenum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D190ZB	Bypass Duodenum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D19479	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194Z9	Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZA	Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZB	Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D19879	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198Z9	Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZA	Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZB	Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A07A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0ZA	Bypass Jejunum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZA	Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZB	Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B07B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZB	Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZH	Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DB60Z3	Excision of Stomach, Open Approach, Vertical	Procedure	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	Procedure	ICD-10-PCS
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	Procedure	ICD-10-PCS
0DB63ZZ	Excision of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	Procedure	ICD-10-PCS
0DB67ZZ	Excision of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB68Z3	Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical	Procedure	ICD-10-PCS
0DB80ZZ	Excision of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DBB0ZZ	Excision of Ileum, Open Approach	Procedure	ICD-10-PCS
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
33647	Repair of atrial septal defect and ventricular septal defect, with direct or patch closure	Procedure	CPT-4

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
33720	Repair sinus of Valsalva aneurysm, with cardiopulmonary bypass	Procedure	CPT-4
33741	Transcatheter atrial septostomy (TAS) for congenital cardiac anomalies to create effective atrial flow, including all imaging guidance by the proceduralist, when performed, any method (eg, Rashkind, Sang-Park, balloon, cutting balloon, blade)	Procedure	CPT-4
33745	Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac catheterization for congenital cardiac anomalies, and target zone angioplasty, when performed (eg, atrial septum, Fontan fenestration, right ventricular outflow tract, Mustard/Senning/Warden baffles); initial intracardiac shunt	Procedure	CPT-4
33746	Transcatheter intracardiac shunt (TIS) creation by stent placement for congenital cardiac anomalies to establish effective intracardiac flow, including all imaging guidance by the proceduralist, when performed, left and right heart diagnostic cardiac catheterization for congenital cardiac anomalies, and target zone angioplasty, when performed (eg, atrial septum, Fontan fenestration, right ventricular outflow tract, Mustard/Senning/Warden baffles); each additional intracardiac shunt location (List separately in addition to code for primary procedure)	Procedure	CPT-4
33924	Ligation and takedown of a systemic-to-pulmonary artery shunt, performed in conjunction with a congenital heart procedure (List separately in addition to code for primary procedure)	Procedure	CPT-4
3E07017	Introduction of Other Thrombolytic into Coronary Artery, Open Approach	Procedure	ICD-10-PCS
3E070PZ	Introduction of Platelet Inhibitor into Coronary Artery, Open Approach	Procedure	ICD-10-PCS
3E07317	Introduction of Other Thrombolytic into Coronary Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E073PZ	Introduction of Platelet Inhibitor into Coronary Artery, Percutaneous Approach	Procedure	ICD-10-PCS
3E1M39Z	Irrigation of Peritoneal Cavity using Dialysate, Percutaneous Approach	Procedure	ICD-10-PCS
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	Procedure	CPT-4
43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	Procedure	CPT-4
43770	Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg, gastric band and subcutaneous port components)	Procedure	CPT-4
43842	Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty	Procedure	CPT-4
43843	Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty	Procedure	CPT-4
43845	Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption (biliopancreatic diversion with duodenal switch)	Procedure	CPT-4
43846	Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy	Procedure	CPT-4
43847	Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption	Procedure	CPT-4
5A1D00Z	Performance of Urinary Filtration, Single	Procedure	ICD-10-PCS
5A1D60Z	Performance of Urinary Filtration, Multiple	Procedure	ICD-10-PCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
5A1D70Z	Performance of Urinary Filtration, Intermittent, Less than 6 Hours Per Day	Procedure	ICD-10-PCS
5A1D80Z	Performance of Urinary Filtration, Prolonged Intermittent, 6-18 hours Per Day	Procedure	ICD-10-PCS
5A1D90Z	Performance of Urinary Filtration, Continuous, Greater than 18 hours Per Day	Procedure	ICD-10-PCS
727860101	voxelotor	RX	ND
75572	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology (including 3D image postprocessing, assessment of cardiac function, and evaluation of venous structures, if performed)	Procedure	CPT-4
75573	Computed tomography, heart, with contrast material, for evaluation of cardiac structure and morphology in the setting of congenital heart disease (including 3D image postprocessing, assessment of LV cardiac function, RV structure and function and evaluation of venous structures, if performed)	Procedure	CPT-4
93303	Transthoracic echocardiography for congenital cardiac anomalies; complete	Procedure	CPT-4
93304	Transthoracic echocardiography for congenital cardiac anomalies; follow-up or limited study	Procedure	CPT-4
93315	Transesophageal echocardiography for congenital cardiac anomalies; including probe placement, image acquisition, interpretation and report	Procedure	CPT-4
93316	Transesophageal echocardiography for congenital cardiac anomalies; placement of transesophageal probe only	Procedure	CPT-4
93317	Transesophageal echocardiography for congenital cardiac anomalies; image acquisition, interpretation and report only	Procedure	CPT-4
93530	Right heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93531	Combined right heart catheterization and retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93532	Combined right heart catheterization and transseptal left heart catheterization through intact septum with or without retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93533	Combined right heart catheterization and transseptal left heart catheterization through existing septal opening, with or without retrograde left heart catheterization, for congenital cardiac anomalies	Procedure	CPT-4
93563	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective coronary angiography during congenital heart catheterization (List separately in addition to code for primary procedure)	Procedure	CPT-4
93564	Injection procedure during cardiac catheterization including imaging supervision, interpretation, and report; for selective opacification of aortocoronary venous or arterial bypass graft(s) (eg, aortocoronary saphenous vein, free radial artery, or free mammary artery graft) to one or more coronary arteries and in situ arterial conduits (eg, internal mammary), whether native or used for bypass to one or more coronary arteries during congenital heart catheterization, when performed (List separately in addition to code for primary procedure)	Procedure	CPT-4
93580	Percutaneous transcatheter closure of congenital interatrial communication (ie, Fontan fenestration, atrial septal defect) with implant	Procedure	CPT-4
93581	Percutaneous transcatheter closure of a congenital ventricular septal defect with implant	Procedure	CPT-4
A4653	Peritoneal dialysis catheter anchoring device, belt, each	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
A4671	Disposable cyclor set used with cyclor dialysis machine, each	Procedure	HCPCS
A4672	Drainage extension line, sterile, for dialysis, each	Procedure	HCPCS
A4673	Extension line with easy lock connectors, used with dialysis	Procedure	HCPCS
A4674	Chemicals/antiseptics solution used to clean/sterilize dialysis equipment, per 8 oz	Procedure	HCPCS
A4680	Activated carbon filter for hemodialysis, each	Procedure	HCPCS
A4690	Dialyzer (artificial kidneys), all types, all sizes, for hemodialysis, each	Procedure	HCPCS
A4700	Standard dialysate solution, each	Procedure	HCPCS
A4705	Bicarbonate dialysate solution, each	Procedure	HCPCS
A4706	Bicarbonate concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS
A4707	Bicarbonate concentrate, powder, for hemodialysis, per packet	Procedure	HCPCS
A4708	Acetate concentrate solution, for hemodialysis, per gallon	Procedure	HCPCS
A4709	Acid concentrate, solution, for hemodialysis, per gallon	Procedure	HCPCS
A4712	Water, sterile, for injection, per 10 ml	Procedure	HCPCS
A4714	Treated water (deionized, distilled, or reverse osmosis) for peritoneal dialysis, per gallon	Procedure	HCPCS
A4719	"Y set" tubing for peritoneal dialysis	Procedure	HCPCS
A4720	Dialysate solution, any concentration of dextrose, fluid volume greater than 249 cc, but less than or equal to 999 cc, for peritoneal dialysis	Procedure	HCPCS
A4721	Dialysate solution, any concentration of dextrose, fluid volume greater than 999 cc but less than or equal to 1999 cc, for peritoneal dialysis	Procedure	HCPCS
A4722	Dialysate solution, any concentration of dextrose, fluid volume greater than 1999 cc but less than or equal to 2999 cc, for peritoneal dialysis	Procedure	HCPCS
A4723	Dialysate solution, any concentration of dextrose, fluid volume greater than 2999 cc but less than or equal to 3999 cc, for peritoneal dialysis	Procedure	HCPCS
A4724	Dialysate solution, any concentration of dextrose, fluid volume greater than 3999 cc but less than or equal to 4999 cc, for peritoneal dialysis	Procedure	HCPCS
A4725	Dialysate solution, any concentration of dextrose, fluid volume greater than 4999 cc but less than or equal to 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4726	Dialysate solution, any concentration of dextrose, fluid volume greater than 5999 cc, for peritoneal dialysis	Procedure	HCPCS
A4728	Dialysate solution, nondextrose containing, 500 ml	Procedure	HCPCS
A4730	Fistula cannulation set for hemodialysis, each	Procedure	HCPCS
A4735	Local/topical anesthetics for dialysis only	Procedure	HCPCS
A4736	Topical anesthetic, for dialysis, per g	Procedure	HCPCS
A4737	Injectable anesthetic, for dialysis, per 10 ml	Procedure	HCPCS
A4740	Shunt accessory, for hemodialysis, any type, each	Procedure	HCPCS
A4750	Blood tubing, arterial or venous, for hemodialysis, each	Procedure	HCPCS
A4755	Blood tubing, arterial and venous combined, for hemodialysis, each	Procedure	HCPCS
A4760	Dialysate solution test kit, for peritoneal dialysis, any type, each	Procedure	HCPCS
A4765	Dialysate concentrate, powder, additive for peritoneal dialysis, per packet	Procedure	HCPCS
A4766	Dialysate concentrate, solution, additive for peritoneal dialysis, per 10 ml	Procedure	HCPCS
A4802	Protamine sulfate, for hemodialysis, per 50 mg	Procedure	HCPCS
A4820	Hemodialysis kit supplies	Procedure	HCPCS
A4850	Hemostats with rubber tips for dialysis	Procedure	HCPCS

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
A4860	Disposable catheter tips for peritoneal dialysis, per 10	Procedure	HCPCS
A4870	Plumbing and/or electrical work for home hemodialysis equipment	Procedure	HCPCS
A4880	Storage tanks utilized in connection with water purification system, replacement tanks for dialysis	Procedure	HCPCS
A4890	Contracts, repair and maintenance, for hemodialysis equipment	Procedure	HCPCS
A4900	Continuous ambulatory peritoneal dialysis (capd) supply kit	Procedure	HCPCS
A4901	Continuous cycling peritoneal dialysis (ccpd) supply kit	Procedure	HCPCS
A4905	Intermittent peritoneal dialysis (ipd) supply kit	Procedure	HCPCS
A4910	Non-medical supplies for dialysis, (i.e., scale, scissors, stopwatch, etc.)	Procedure	HCPCS
A4911	Drain bag/bottle, for dialysis, each	Procedure	HCPCS
A4912	Gomco drain bottle	Procedure	HCPCS
A4913	Miscellaneous dialysis supplies, not otherwise specified	Procedure	HCPCS
A4914	Preparation kits	Procedure	HCPCS
A4918	Venous pressure clamp, for hemodialysis, each	Procedure	HCPCS
B20	Human immunodeficiency virus [HIV] disease	Diagnosis	ICD-10-CM
B44.81	Allergic bronchopulmonary aspergillosis	Diagnosis	ICD-10-CM
B97.35	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere	Diagnosis	ICD-10-CM
C81.00	Nodular lymphocyte predominant Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.01	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.02	Nodular lymphocyte predominant Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.03	Nodular lymphocyte predominant Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.04	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.05	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.06	Nodular lymphocyte predominant Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.07	Nodular lymphocyte predominant Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.08	Nodular lymphocyte predominant Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.09	Nodular lymphocyte predominant Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.10	Nodular sclerosis Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.11	Nodular sclerosis Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.12	Nodular sclerosis Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.13	Nodular sclerosis Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.14	Nodular sclerosis Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.15	Nodular sclerosis Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.16	Nodular sclerosis Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.17	Nodular sclerosis Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.18	Nodular sclerosis Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.19	Nodular sclerosis Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.20	Mixed cellularity Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.21	Mixed cellularity Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C81.22	Mixed cellularity Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.23	Mixed cellularity Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.24	Mixed cellularity Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.25	Mixed cellularity Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.26	Mixed cellularity Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.27	Mixed cellularity Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.28	Mixed cellularity Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.29	Mixed cellularity Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.30	Lymphocyte depleted Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.31	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.32	Lymphocyte depleted Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.33	Lymphocyte depleted Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.34	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.35	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.36	Lymphocyte depleted Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.37	Lymphocyte depleted Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.38	Lymphocyte depleted Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.39	Lymphocyte depleted Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.40	Lymphocyte-rich Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.41	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.42	Lymphocyte-rich Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.43	Lymphocyte-rich Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.44	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.45	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.46	Lymphocyte-rich Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.47	Lymphocyte-rich Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.48	Lymphocyte-rich Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.49	Lymphocyte-rich Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.70	Other Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C81.71	Other Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.72	Other Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.73	Other Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.74	Other Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C81.75	Other Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.76	Other Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.77	Other Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C81.78	Other Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.79	Other Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C81.90	Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C81.91	Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C81.92	Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C81.93	Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C81.94	Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C81.95	Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C81.96	Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C81.97	Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C81.98	Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C81.99	Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.00	Follicular lymphoma grade I, unspecified site	Diagnosis	ICD-10-CM
C82.01	Follicular lymphoma grade I, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.02	Follicular lymphoma grade I, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.03	Follicular lymphoma grade I, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.04	Follicular lymphoma grade I, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.05	Follicular lymphoma grade I, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.06	Follicular lymphoma grade I, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.07	Follicular lymphoma grade I, spleen	Diagnosis	ICD-10-CM
C82.08	Follicular lymphoma grade I, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.09	Follicular lymphoma grade I, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.10	Follicular lymphoma grade II, unspecified site	Diagnosis	ICD-10-CM
C82.11	Follicular lymphoma grade II, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.12	Follicular lymphoma grade II, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.13	Follicular lymphoma grade II, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.14	Follicular lymphoma grade II, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.15	Follicular lymphoma grade II, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.16	Follicular lymphoma grade II, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.17	Follicular lymphoma grade II, spleen	Diagnosis	ICD-10-CM
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.20	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.27	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.30	Follicular lymphoma grade IIIa, unspecified site	Diagnosis	ICD-10-CM
C82.31	Follicular lymphoma grade IIIa, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.32	Follicular lymphoma grade IIIa, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.33	Follicular lymphoma grade IIIa, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.34	Follicular lymphoma grade IIIa, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.35	Follicular lymphoma grade IIIa, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.36	Follicular lymphoma grade IIIa, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.37	Follicular lymphoma grade IIIa, spleen	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C82.38	Follicular lymphoma grade IIIa, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.39	Follicular lymphoma grade IIIa, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.40	Follicular lymphoma grade IIIb, unspecified site	Diagnosis	ICD-10-CM
C82.41	Follicular lymphoma grade IIIb, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.42	Follicular lymphoma grade IIIb, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.43	Follicular lymphoma grade IIIb, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.44	Follicular lymphoma grade IIIb, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.45	Follicular lymphoma grade IIIb, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.46	Follicular lymphoma grade IIIb, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.47	Follicular lymphoma grade IIIb, spleen	Diagnosis	ICD-10-CM
C82.48	Follicular lymphoma grade IIIb, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.49	Follicular lymphoma grade IIIb, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.50	Diffuse follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.51	Diffuse follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.52	Diffuse follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.53	Diffuse follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.54	Diffuse follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.55	Diffuse follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.56	Diffuse follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.57	Diffuse follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.58	Diffuse follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.59	Diffuse follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.60	Cutaneous follicle center lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.61	Cutaneous follicle center lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.62	Cutaneous follicle center lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.63	Cutaneous follicle center lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.64	Cutaneous follicle center lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.67	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.80	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.87	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.90	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C82.92	Follicular lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.93	Follicular lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.94	Follicular lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.95	Follicular lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.96	Follicular lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.97	Follicular lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C82.98	Follicular lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.99	Follicular lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.00	Small cell B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.01	Small cell B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.02	Small cell B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.03	Small cell B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.04	Small cell B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.05	Small cell B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.07	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.10	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.11	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.17	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.19	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.30	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.37	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C83.56	Lymphoblastic (diffuse) lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.57	Lymphoblastic (diffuse) lymphoma, spleen	Diagnosis	ICD-10-CM
C83.58	Lymphoblastic (diffuse) lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.59	Lymphoblastic (diffuse) lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.70	Burkitt lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.71	Burkitt lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.72	Burkitt lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.73	Burkitt lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.74	Burkitt lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.75	Burkitt lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.76	Burkitt lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.77	Burkitt lymphoma, spleen	Diagnosis	ICD-10-CM
C83.78	Burkitt lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.79	Burkitt lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.80	Other non-follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.81	Other non-follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.82	Other non-follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.83	Other non-follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.84	Other non-follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.85	Other non-follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.86	Other non-follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.87	Other non-follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C83.88	Other non-follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.89	Other non-follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.90	Non-follicular (diffuse) lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C83.91	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.92	Non-follicular (diffuse) lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.93	Non-follicular (diffuse) lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.94	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.95	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.96	Non-follicular (diffuse) lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.97	Non-follicular (diffuse) lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C83.98	Non-follicular (diffuse) lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.99	Non-follicular (diffuse) lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.00	Mycosis fungoides, unspecified site	Diagnosis	ICD-10-CM
C84.01	Mycosis fungoides, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.02	Mycosis fungoides, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.03	Mycosis fungoides, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.04	Mycosis fungoides, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.05	Mycosis fungoides, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.06	Mycosis fungoides, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.07	Mycosis fungoides, spleen	Diagnosis	ICD-10-CM
C84.08	Mycosis fungoides, lymph nodes of multiple sites	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C84.09	Mycosis fungoides, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.10	Sezary disease, unspecified site	Diagnosis	ICD-10-CM
C84.11	Sezary disease, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.12	Sezary disease, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.13	Sezary disease, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.14	Sezary disease, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.15	Sezary disease, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.16	Sezary disease, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.17	Sezary disease, spleen	Diagnosis	ICD-10-CM
C84.18	Sezary disease, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.19	Sezary disease, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.40	Peripheral T-cell lymphoma, not classified, unspecified site	Diagnosis	ICD-10-CM
C84.41	Peripheral T-cell lymphoma, not classified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.42	Peripheral T-cell lymphoma, not classified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.43	Peripheral T-cell lymphoma, not classified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.44	Peripheral T-cell lymphoma, not classified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.45	Peripheral T-cell lymphoma, not classified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.46	Peripheral T-cell lymphoma, not classified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.47	Peripheral T-cell lymphoma, not classified, spleen	Diagnosis	ICD-10-CM
C84.48	Peripheral T-cell lymphoma, not classified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.49	Peripheral T-cell lymphoma, not classified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.60	Anaplastic large cell lymphoma, ALK-positive, unspecified site	Diagnosis	ICD-10-CM
C84.61	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.63	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.64	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.65	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.66	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.67	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C84.68	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.69	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.70	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C84.71	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.73	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.74	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.75	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.76	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.77	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C84.78	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C84.90	Mature T/NK-cell lymphomas, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.91	Mature T/NK-cell lymphomas, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.92	Mature T/NK-cell lymphomas, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.93	Mature T/NK-cell lymphomas, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.94	Mature T/NK-cell lymphomas, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.95	Mature T/NK-cell lymphomas, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.96	Mature T/NK-cell lymphomas, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.97	Mature T/NK-cell lymphomas, unspecified, spleen	Diagnosis	ICD-10-CM
C84.98	Mature T/NK-cell lymphomas, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.99	Mature T/NK-cell lymphomas, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.A0	Cutaneous T-cell lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C84.A1	Cutaneous T-cell lymphoma, unspecified lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.A2	Cutaneous T-cell lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.A3	Cutaneous T-cell lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.A4	Cutaneous T-cell lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.A5	Cutaneous T-cell lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.A6	Cutaneous T-cell lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.A7	Cutaneous T-cell lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C84.A8	Cutaneous T-cell lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.A9	Cutaneous T-cell lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.Z0	Other mature T/NK-cell lymphomas, unspecified site	Diagnosis	ICD-10-CM
C84.Z1	Other mature T/NK-cell lymphomas, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.Z2	Other mature T/NK-cell lymphomas, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.Z3	Other mature T/NK-cell lymphomas, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.Z4	Other mature T/NK-cell lymphomas, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.Z5	Other mature T/NK-cell lymphomas, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.Z6	Other mature T/NK-cell lymphomas, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.Z7	Other mature T/NK-cell lymphomas, spleen	Diagnosis	ICD-10-CM
C84.Z8	Other mature T/NK-cell lymphomas, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.Z9	Other mature T/NK-cell lymphomas, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.10	Unspecified B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.11	Unspecified B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.12	Unspecified B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.13	Unspecified B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.14	Unspecified B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.15	Unspecified B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.16	Unspecified B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.17	Unspecified B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.18	Unspecified B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.19	Unspecified B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.20	Mediastinal (thymic) large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C85.22	Mediastinal (thymic) large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.23	Mediastinal (thymic) large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.24	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.87	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.97	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C86.0	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C86.1	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.2	Enteropathy-type (intestinal) T-cell lymphoma	Diagnosis	ICD-10-CM
C86.3	Subcutaneous panniculitis-like T-cell lymphoma	Diagnosis	ICD-10-CM
C86.4	Blastic NK-cell lymphoma	Diagnosis	ICD-10-CM
C86.5	Angioimmunoblastic T-cell lymphoma	Diagnosis	ICD-10-CM
C86.6	Primary cutaneous CD30-positive T-cell proliferations	Diagnosis	ICD-10-CM
C88.0	Waldenstrom macroglobulinemia	Diagnosis	ICD-10-CM
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM
C88.8	Other malignant immunoproliferative diseases	Diagnosis	ICD-10-CM
C90.00	Multiple myeloma not having achieved remission	Diagnosis	ICD-10-CM
C90.01	Multiple myeloma in remission	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C90.02	Multiple myeloma in relapse	Diagnosis	ICD-10-CM
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.12	Plasma cell leukemia in relapse	Diagnosis	ICD-10-CM
C90.20	Extramedullary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.22	Extramedullary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C90.30	Solitary plasmacytoma not having achieved remission	Diagnosis	ICD-10-CM
C90.32	Solitary plasmacytoma in relapse	Diagnosis	ICD-10-CM
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.02	Acute lymphoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C91.10	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.12	Chronic lymphocytic leukemia of B-cell type in relapse	Diagnosis	ICD-10-CM
C91.30	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.32	Prolymphocytic leukemia of B-cell type, in relapse	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.42	Hairy cell leukemia, in relapse	Diagnosis	ICD-10-CM
C91.50	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM
C91.52	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in relapse	Diagnosis	ICD-10-CM
C91.60	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.62	Prolymphocytic leukemia of T-cell type, in relapse	Diagnosis	ICD-10-CM
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.92	Lymphoid leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C91.A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91.A2	Mature B-cell leukemia Burkitt-type, in relapse	Diagnosis	ICD-10-CM
C91.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z2	Other lymphoid leukemia, in relapse	Diagnosis	ICD-10-CM
C92.00	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.02	Acute myeloblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C92.12	Chronic myeloid leukemia, BCR/ABL-positive, in relapse	Diagnosis	ICD-10-CM
C92.20	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C92.22	Atypical chronic myeloid leukemia, BCR/ABL-negative, in relapse	Diagnosis	ICD-10-CM
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C92.32	Myeloid sarcoma, in relapse	Diagnosis	ICD-10-CM
C92.40	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.42	Acute promyelocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.52	Acute myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C92.60	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM
C92.62	Acute myeloid leukemia with 11q23-abnormality in relapse	Diagnosis	ICD-10-CM
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.92	Myeloid leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C92.A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92.A2	Acute myeloid leukemia with multilineage dysplasia, in relapse	Diagnosis	ICD-10-CM
C92.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
C92.Z2	Other myeloid leukemia, in relapse	Diagnosis	ICD-10-CM
C93.00	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.02	Acute monoblastic/monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.12	Chronic myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.30	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.32	Juvenile myelomonocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.92	Monocytic leukemia, unspecified in relapse	Diagnosis	ICD-10-CM
C93.Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.Z2	Other monocytic leukemia, in relapse	Diagnosis	ICD-10-CM
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.02	Acute erythroid leukemia, in relapse	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.22	Acute megakaryoblastic leukemia, in relapse	Diagnosis	ICD-10-CM
C94.30	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.32	Mast cell leukemia, in relapse	Diagnosis	ICD-10-CM
C94.40	Acute panmyelosis with myelofibrosis not having achieved remission	Diagnosis	ICD-10-CM
C94.42	Acute panmyelosis with myelofibrosis, in relapse	Diagnosis	ICD-10-CM
C94.6	Myelodysplastic disease, not classified	Diagnosis	ICD-10-CM
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.82	Other specified leukemias, in relapse	Diagnosis	ICD-10-CM
C95.00	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.02	Acute leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C95.10	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.12	Chronic leukemia of unspecified cell type, in relapse	Diagnosis	ICD-10-CM
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.92	Leukemia, unspecified, in relapse	Diagnosis	ICD-10-CM
C96.20	Malignant mast cell neoplasm, unspecified	Diagnosis	ICD-10-CM
C96.21	Aggressive systemic mastocytosis	Diagnosis	ICD-10-CM
C96.22	Mast cell sarcoma	Diagnosis	ICD-10-CM
C96.29	Other malignant mast cell neoplasm	Diagnosis	ICD-10-CM
C96.4	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C96.6	Unifocal Langerhans-cell histiocytosis	Diagnosis	ICD-10-CM
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.A	Histiocytic sarcoma	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D45	Polycythemia vera	Diagnosis	ICD-10-CM
D46.22	Refractory anemia with excess of blasts 2	Diagnosis	ICD-10-CM
D47.1	Chronic myeloproliferative disease	Diagnosis	ICD-10-CM
D47.4	Osteomyelofibrosis	Diagnosis	ICD-10-CM
D47.9	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
D47.Z1	Post-transplant lymphoproliferative disorder (PTLD)	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D47.Z9	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D57	Sickle-cell disorders	Diagnosis	ICD-10-CM
D57.0	Hb-SS disease with crisis	Diagnosis	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.03	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.09	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.2	Sickle-cell/Hb-C disease	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57.21	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.4	Sickle-cell thalassemia	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.41	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia, unspecified, with splenic sequestration	Diagnosis	ICD-10-CM
D57.413	Sickle-cell thalassemia, unspecified, with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.418	Sickle-cell thalassemia, unspecified, with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.42	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57.432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57.433	Sickle-cell thalassemia beta zero with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.438	Sickle-cell thalassemia beta zero with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D57.44	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57.452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM
D57.453	Sickle-cell thalassemia beta plus with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.458	Sickle-cell thalassemia beta plus with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM
D57.8	Other sickle-cell disorders	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57.81	Other sickle-cell disorders with crisis	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D57.813	Other sickle-cell disorders with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.818	Other sickle-cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D61.82	Myelophthisis	Diagnosis	ICD-10-CM
D70.0	Congenital agranulocytosis	Diagnosis	ICD-10-CM
D70.4	Cyclic neutropenia	Diagnosis	ICD-10-CM
D71	Functional disorders of polymorphonuclear neutrophils	Diagnosis	ICD-10-CM
D75.81	Myelofibrosis	Diagnosis	ICD-10-CM
D76.1	Hemophagocytic lymphohistiocytosis	Diagnosis	ICD-10-CM
D76.2	Hemophagocytic syndrome, infection-associated	Diagnosis	ICD-10-CM
D76.3	Other histiocytosis syndromes	Diagnosis	ICD-10-CM
D80.0	Hereditary hypogammaglobulinemia	Diagnosis	ICD-10-CM
D80.1	Nonfamilial hypogammaglobulinemia	Diagnosis	ICD-10-CM
D80.2	Selective deficiency of immunoglobulin A [IgA]	Diagnosis	ICD-10-CM
D80.3	Selective deficiency of immunoglobulin G [IgG] subclasses	Diagnosis	ICD-10-CM
D80.4	Selective deficiency of immunoglobulin M [IgM]	Diagnosis	ICD-10-CM
D80.5	Immunodeficiency with increased immunoglobulin M [IgM]	Diagnosis	ICD-10-CM
D80.6	Antibody deficiency with near-normal immunoglobulins or with hyperimmunoglobulinemia	Diagnosis	ICD-10-CM
D80.8	Other immunodeficiencies with predominantly antibody defects	Diagnosis	ICD-10-CM
D80.9	Immunodeficiency with predominantly antibody defects, unspecified	Diagnosis	ICD-10-CM
D81.0	Severe combined immunodeficiency [SCID] with reticular dysgenesis	Diagnosis	ICD-10-CM
D81.1	Severe combined immunodeficiency [SCID] with low T- and B-cell numbers	Diagnosis	ICD-10-CM
D81.2	Severe combined immunodeficiency [SCID] with low or normal B-cell numbers	Diagnosis	ICD-10-CM
D81.3	Adenosine deaminase [ADA] deficiency	Diagnosis	ICD-10-CM
D81.30	Adenosine deaminase deficiency, unspecified	Diagnosis	ICD-10-CM
D81.31	Severe combined immunodeficiency due to adenosine deaminase deficiency	Diagnosis	ICD-10-CM
D81.32	Adenosine deaminase 2 deficiency	Diagnosis	ICD-10-CM
D81.39	Other adenosine deaminase deficiency	Diagnosis	ICD-10-CM
D81.4	Nezelof's syndrome	Diagnosis	ICD-10-CM
D81.5	Purine nucleoside phosphorylase [PNP] deficiency	Diagnosis	ICD-10-CM
D81.6	Major histocompatibility complex class I deficiency	Diagnosis	ICD-10-CM
D81.7	Major histocompatibility complex class II deficiency	Diagnosis	ICD-10-CM
D81.89	Other combined immunodeficiencies	Diagnosis	ICD-10-CM
D81.9	Combined immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D82.0	Wiskott-Aldrich syndrome	Diagnosis	ICD-10-CM
D82.1	Di George's syndrome	Diagnosis	ICD-10-CM
D82.2	Immunodeficiency with short-limbed stature	Diagnosis	ICD-10-CM
D82.3	Immunodeficiency following hereditary defective response to Epstein-Barr virus	Diagnosis	ICD-10-CM
D82.4	Hyperimmunoglobulin E [IgE] syndrome	Diagnosis	ICD-10-CM
D82.8	Immunodeficiency associated with other specified major defects	Diagnosis	ICD-10-CM
D82.9	Immunodeficiency associated with major defect, unspecified	Diagnosis	ICD-10-CM
D83.0	Common variable immunodeficiency with predominant abnormalities of B-cell numbers and function	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D83.1	Common variable immunodeficiency with predominant immunoregulatory T-cell disorders	Diagnosis	ICD-10-CM
D83.2	Common variable immunodeficiency with autoantibodies to B- or T-cells	Diagnosis	ICD-10-CM
D83.8	Other common variable immunodeficiencies	Diagnosis	ICD-10-CM
D83.9	Common variable immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D84.0	Lymphocyte function antigen-1 [LFA-1] defect	Diagnosis	ICD-10-CM
D84.1	Defects in the complement system	Diagnosis	ICD-10-CM
D84.8	Other specified immunodeficiencies	Diagnosis	ICD-10-CM
D84.9	Immunodeficiency, unspecified	Diagnosis	ICD-10-CM
D89.82	Autoimmune lymphoproliferative syndrome [ALPS]	Diagnosis	ICD-10-CM
E08	Diabetes mellitus due to underlying condition	Diagnosis	ICD-10-CM
E08.0	Diabetes mellitus due to underlying condition with hyperosmolarity	Diagnosis	ICD-10-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.1	Diabetes mellitus due to underlying condition with ketoacidosis	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.2	Diabetes mellitus due to underlying condition with kidney complications	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.3	Diabetes mellitus due to underlying condition with ophthalmic complications	Diagnosis	ICD-10-CM
E08.31	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.32	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.33	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.34	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.35	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.352	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.353	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.354	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.355	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.4	Diabetes mellitus due to underlying condition with neurological complications	Diagnosis	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.5	Diabetes mellitus due to underlying condition with circulatory complications	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.6	Diabetes mellitus due to underlying condition with other specified complications	Diagnosis	ICD-10-CM
E08.61	Diabetes mellitus due to underlying condition with diabetic arthropathy	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.62	Diabetes mellitus due to underlying condition with skin complications	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.63	Diabetes mellitus due to underlying condition with oral complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.64	Diabetes mellitus due to underlying condition with hypoglycemia	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E09	Drug or chemical induced diabetes mellitus	Diagnosis	ICD-10-CM
E09.0	Drug or chemical induced diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.1	Drug or chemical induced diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.2	Drug or chemical induced diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.3	Drug or chemical induced diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E09.31	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.32	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.33	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.34	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.35	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.352	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.353	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.354	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.355	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.37	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.4	Drug or chemical induced diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.5	Drug or chemical induced diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.6	Drug or chemical induced diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E09.61	Drug or chemical induced diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.62	Drug or chemical induced diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.63	Drug or chemical induced diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.64	Drug or chemical induced diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.1	Type 1 diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.2	Type 1 diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.3	Type 1 diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E10.31	Type 1 diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.32	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.33	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.34	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E10.35	Type 1 diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.352	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.353	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.354	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.355	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.4	Type 1 diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.5	Type 1 diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.6	Type 1 diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E10.61	Type 1 diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.62	Type 1 diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.63	Type 1 diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.64	Type 1 diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E11.0	Type 2 diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.1	Type 2 diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.2	Type 2 diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.3	Type 2 diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E11.31	Type 2 diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.32	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.33	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.34	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.35	Type 2 diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.352	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.353	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.354	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.355	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.4	Type 2 diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.5	Type 2 diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.6	Type 2 diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E11.61	Type 2 diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.62	Type 2 diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.63	Type 2 diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
E11.64	Type 2 diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.0	Other specified diabetes mellitus with hyperosmolarity	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.1	Other specified diabetes mellitus with ketoacidosis	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E13.2	Other specified diabetes mellitus with kidney complications	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.3	Other specified diabetes mellitus with ophthalmic complications	Diagnosis	ICD-10-CM
E13.31	Other specified diabetes mellitus with unspecified diabetic retinopathy	Diagnosis	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.32	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.33	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.34	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.35	Other specified diabetes mellitus with proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.352	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.353	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.354	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.355	Other specified diabetes mellitus with stable proliferative diabetic retinopathy	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.37	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment	Diagnosis	ICD-10-CM
E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.4	Other specified diabetes mellitus with neurological complications	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.5	Other specified diabetes mellitus with circulatory complications	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.6	Other specified diabetes mellitus with other specified complications	Diagnosis	ICD-10-CM
E13.61	Other specified diabetes mellitus with diabetic arthropathy	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.62	Other specified diabetes mellitus with skin complications	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.63	Other specified diabetes mellitus with oral complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.64	Other specified diabetes mellitus with hypoglycemia	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
E1500	Centrifuge, for dialysis	Procedure	HCPCS
E1510	Kidney, dialysate delivery system kidney machine, pump recirculating, air removal system, flowrate meter, power off, heater and temperature control with alarm, IV poles, pressure gauge, concentrate container	Procedure	HCPCS
E1520	Heparin infusion pump for hemodialysis	Procedure	HCPCS
E1530	Air bubble detector for hemodialysis, each, replacement	Procedure	HCPCS
E1540	Pressure alarm for hemodialysis, each, replacement	Procedure	HCPCS
E1550	Bath conductivity meter for hemodialysis, each	Procedure	HCPCS
E1560	Blood leak detector for hemodialysis, each, replacement	Procedure	HCPCS
E1570	Adjustable chair, for ESRD patients	Procedure	HCPCS
E1575	Transducer protectors/fluid barriers, for hemodialysis, any size, per 10	Procedure	HCPCS
E1580	Unipuncture control system for hemodialysis	Procedure	HCPCS
E1590	Hemodialysis machine	Procedure	HCPCS
E1592	Automatic intermittent peritoneal dialysis system	Procedure	HCPCS
E1594	Cycler dialysis machine for peritoneal dialysis	Procedure	HCPCS
E1600	Delivery and/or installation charges for hemodialysis equipment	Procedure	HCPCS
E1610	Reverse osmosis water purification system, for hemodialysis	Procedure	HCPCS
E1615	Deionizer water purification system, for hemodialysis	Procedure	HCPCS
E1620	Blood pump for hemodialysis, replacement	Procedure	HCPCS
E1625	Water softening system, for hemodialysis	Procedure	HCPCS
E1630	Reciprocating peritoneal dialysis system	Procedure	HCPCS
E1632	Wearable artificial kidney, each	Procedure	HCPCS
E1634	Peritoneal dialysis clamps, each	Procedure	HCPCS

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Code	Description	Code Category	Code Type
E1635	Compact (portable) travel hemodialyzer system	Procedure	HCPCS
E1636	Sorbent cartridges, for hemodialysis, per 10	Procedure	HCPCS
E40	Kwashiorkor	Diagnosis	ICD-10-CM
E41	Nutritional marasmus	Diagnosis	ICD-10-CM
E42	Marasmic kwashiorkor	Diagnosis	ICD-10-CM
E43	Unspecified severe protein-calorie malnutrition	Diagnosis	ICD-10-CM
E66.01	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E66.09	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E66.1	Drug-induced obesity	Diagnosis	ICD-10-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
E66.8	Other obesity	Diagnosis	ICD-10-CM
E66.9	Obesity, unspecified	Diagnosis	ICD-10-CM
E80.3	Defects of catalase and peroxidase	Diagnosis	ICD-10-CM
E84.0	Cystic fibrosis with pulmonary manifestations	Diagnosis	ICD-10-CM
E84.1	Cystic fibrosis with intestinal manifestations	Diagnosis	ICD-10-CM
E84.19	Cystic fibrosis with other intestinal manifestations	Diagnosis	ICD-10-CM
E84.8	Cystic fibrosis with other manifestations	Diagnosis	ICD-10-CM
G47.34	Idiopathic sleep related nonobstructive alveolar hypoventilation	Diagnosis	ICD-10-CM
G47.36	Sleep related hypoventilation in conditions classified elsewhere	Diagnosis	ICD-10-CM
G47.39	Other sleep apnea	Diagnosis	ICD-10-CM
G8451	Beta-blocker therapy for LVEF < 40% not prescribed for reasons documented by the clinician (e.g., low blood pressure, fluid overload, asthma, patients recently treated with an intravenous positive inotropic agent, allergy, intolerance, other medical reasons, patient declined, other patient reasons, or other reasons attributable to the health care system)	Procedure	HCPCS
G8694	Left+D2:D835 ventricular ejection fraction (LVEF) < 40%	Procedure	HCPCS
G8738	Left ventricular ejection fraction (LVEF) < 40% or documentation of severely or moderately depressed left ventricular systolic function	Procedure	HCPCS
G8923	Left ventricular ejection fraction (LVEF) < 40% or documentation of moderately or severely depressed left ventricular systolic function	Procedure	HCPCS
G8934	Left ventricular ejection fraction (LVEF) < 40% or documentation of moderately or severely depressed left ventricular systolic function	Procedure	HCPCS
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I01	Rheumatic fever with heart involvement	Diagnosis	ICD-10-CM
I01.0	Acute rheumatic pericarditis	Diagnosis	ICD-10-CM
I01.1	Acute rheumatic endocarditis	Diagnosis	ICD-10-CM
I01.2	Acute rheumatic myocarditis	Diagnosis	ICD-10-CM
I01.8	Other acute rheumatic heart disease	Diagnosis	ICD-10-CM
I01.9	Acute rheumatic heart disease, unspecified	Diagnosis	ICD-10-CM
I02.0	Rheumatic chorea with heart involvement	Diagnosis	ICD-10-CM
I05	Rheumatic mitral valve diseases	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I05.0	Rheumatic mitral stenosis	Diagnosis	ICD-10-CM
I05.1	Rheumatic mitral insufficiency	Diagnosis	ICD-10-CM
I05.2	Rheumatic mitral stenosis with insufficiency	Diagnosis	ICD-10-CM
I05.8	Other rheumatic mitral valve diseases	Diagnosis	ICD-10-CM
I05.9	Rheumatic mitral valve disease, unspecified	Diagnosis	ICD-10-CM
I06	Rheumatic aortic valve diseases	Diagnosis	ICD-10-CM
I06.0	Rheumatic aortic stenosis	Diagnosis	ICD-10-CM
I06.1	Rheumatic aortic insufficiency	Diagnosis	ICD-10-CM
I06.2	Rheumatic aortic stenosis with insufficiency	Diagnosis	ICD-10-CM
I06.8	Other rheumatic aortic valve diseases	Diagnosis	ICD-10-CM
I06.9	Rheumatic aortic valve disease, unspecified	Diagnosis	ICD-10-CM
I07	Rheumatic tricuspid valve diseases	Diagnosis	ICD-10-CM
I07.0	Rheumatic tricuspid stenosis	Diagnosis	ICD-10-CM
I07.1	Rheumatic tricuspid insufficiency	Diagnosis	ICD-10-CM
I07.2	Rheumatic tricuspid stenosis and insufficiency	Diagnosis	ICD-10-CM
I07.8	Other rheumatic tricuspid valve diseases	Diagnosis	ICD-10-CM
I07.9	Rheumatic tricuspid valve disease, unspecified	Diagnosis	ICD-10-CM
I08	Multiple valve diseases	Diagnosis	ICD-10-CM
I08.0	Rheumatic disorders of both mitral and aortic valves	Diagnosis	ICD-10-CM
I08.1	Rheumatic disorders of both mitral and tricuspid valves	Diagnosis	ICD-10-CM
I08.2	Rheumatic disorders of both aortic and tricuspid valves	Diagnosis	ICD-10-CM
I08.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves	Diagnosis	ICD-10-CM
I08.8	Other rheumatic multiple valve diseases	Diagnosis	ICD-10-CM
I08.9	Rheumatic multiple valve disease, unspecified	Diagnosis	ICD-10-CM
I09	Other rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.0	Rheumatic myocarditis	Diagnosis	ICD-10-CM
I09.1	Rheumatic diseases of endocardium, valve unspecified	Diagnosis	ICD-10-CM
I09.2	Chronic rheumatic pericarditis	Diagnosis	ICD-10-CM
I09.8	Other specified rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.81	Rheumatic heart failure	Diagnosis	ICD-10-CM
I09.89	Other specified rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.9	Rheumatic heart disease, unspecified	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.1	Hypertensive heart and chronic kidney disease without heart failure	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I16.0	Hypertensive urgency	Diagnosis	ICD-10-CM
I16.1	Hypertensive emergency	Diagnosis	ICD-10-CM
I16.9	Hypertensive crisis, unspecified	Diagnosis	ICD-10-CM
I20	Angina pectoris	Diagnosis	ICD-10-CM
I20.0	Unstable angina	Diagnosis	ICD-10-CM
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I20.9	Angina pectoris, unspecified	Diagnosis	ICD-10-CM
I21	Acute myocardial infarction	Diagnosis	ICD-10-CM
I21.0	ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.1	ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.2	ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	Diagnosis	ICD-10-CM
I21.A	Other type of myocardial infarction	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I22	Subsequent ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I23	Certain current complications following ST elevation (STEMI) and non-ST elevation (NSTEMI) myocardial infarction (within the 28 day period)	Diagnosis	ICD-10-CM
I23.0	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I24	Other acute ischemic heart diseases	Diagnosis	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I24.9	Acute ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25	Chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.1	Atherosclerotic heart disease of native coronary artery	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.11	Atherosclerotic heart disease of native coronary artery with angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.2	Old myocardial infarction	Diagnosis	ICD-10-CM
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM
I25.4	Coronary artery aneurysm and dissection	Diagnosis	ICD-10-CM
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I25.7	Atherosclerosis of coronary artery bypass graft(s) and coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.70	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris	Diagnosis	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.71	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.72	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.73	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.75	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I25.76	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris	Diagnosis	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.79	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.8	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.81	Atherosclerosis of other coronary vessels without angina pectoris	Diagnosis	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	Diagnosis	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I27.1	Kyphoscoliotic heart disease	Diagnosis	ICD-10-CM
I27.8	Other specified pulmonary heart diseases	Diagnosis	ICD-10-CM
I27.81	Cor pulmonale (chronic)	Diagnosis	ICD-10-CM
I27.83	Eisenmenger's syndrome	Diagnosis	ICD-10-CM
I31.0	Chronic adhesive pericarditis	Diagnosis	ICD-10-CM
I31.1	Chronic constrictive pericarditis	Diagnosis	ICD-10-CM
I34	Nonrheumatic mitral valve disorders	Diagnosis	ICD-10-CM
I34.0	Nonrheumatic mitral (valve) insufficiency	Diagnosis	ICD-10-CM
I34.1	Nonrheumatic mitral (valve) prolapse	Diagnosis	ICD-10-CM
I34.2	Nonrheumatic mitral (valve) stenosis	Diagnosis	ICD-10-CM
I34.8	Other nonrheumatic mitral valve disorders	Diagnosis	ICD-10-CM
I34.9	Nonrheumatic mitral valve disorder, unspecified	Diagnosis	ICD-10-CM
I35	Nonrheumatic aortic valve disorders	Diagnosis	ICD-10-CM
I35.0	Nonrheumatic aortic (valve) stenosis	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I35.1	Nonrheumatic aortic (valve) insufficiency	Diagnosis	ICD-10-CM
I35.2	Nonrheumatic aortic (valve) stenosis with insufficiency	Diagnosis	ICD-10-CM
I35.8	Other nonrheumatic aortic valve disorders	Diagnosis	ICD-10-CM
I35.9	Nonrheumatic aortic valve disorder, unspecified	Diagnosis	ICD-10-CM
I36	Nonrheumatic tricuspid valve disorders	Diagnosis	ICD-10-CM
I36.0	Nonrheumatic tricuspid (valve) stenosis	Diagnosis	ICD-10-CM
I36.1	Nonrheumatic tricuspid (valve) insufficiency	Diagnosis	ICD-10-CM
I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency	Diagnosis	ICD-10-CM
I36.8	Other nonrheumatic tricuspid valve disorders	Diagnosis	ICD-10-CM
I36.9	Nonrheumatic tricuspid valve disorder, unspecified	Diagnosis	ICD-10-CM
I37	Nonrheumatic pulmonary valve disorders	Diagnosis	ICD-10-CM
I37.0	Nonrheumatic pulmonary valve stenosis	Diagnosis	ICD-10-CM
I37.1	Nonrheumatic pulmonary valve insufficiency	Diagnosis	ICD-10-CM
I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency	Diagnosis	ICD-10-CM
I37.8	Other nonrheumatic pulmonary valve disorders	Diagnosis	ICD-10-CM
I37.9	Nonrheumatic pulmonary valve disorder, unspecified	Diagnosis	ICD-10-CM
I42.0	Dilated cardiomyopathy	Diagnosis	ICD-10-CM
I42.1	Obstructive hypertrophic cardiomyopathy	Diagnosis	ICD-10-CM
I42.2	Other hypertrophic cardiomyopathy	Diagnosis	ICD-10-CM
I42.3	Endomyocardial (eosinophilic) disease	Diagnosis	ICD-10-CM
I42.4	Endocardial fibroelastosis	Diagnosis	ICD-10-CM
I42.5	Other restrictive cardiomyopathy	Diagnosis	ICD-10-CM
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
I42.7	Cardiomyopathy due to drug and external agent	Diagnosis	ICD-10-CM
I42.8	Other cardiomyopathies	Diagnosis	ICD-10-CM
I42.9	Cardiomyopathy, unspecified	Diagnosis	ICD-10-CM
I43	Cardiomyopathy in diseases classified elsewhere	Diagnosis	ICD-10-CM
I44.2	Atrioventricular block, complete	Diagnosis	ICD-10-CM
I45.6	Pre-excitation syndrome	Diagnosis	ICD-10-CM
I45.81	Long QT syndrome	Diagnosis	ICD-10-CM
I45.89	Other specified conduction disorders	Diagnosis	ICD-10-CM
I45.9	Conduction disorder, unspecified	Diagnosis	ICD-10-CM
I46	Cardiac arrest	Diagnosis	ICD-10-CM
I46.2	Cardiac arrest due to underlying cardiac condition	Diagnosis	ICD-10-CM
I46.8	Cardiac arrest due to other underlying condition	Diagnosis	ICD-10-CM
I46.9	Cardiac arrest, cause unspecified	Diagnosis	ICD-10-CM
I47	Paroxysmal tachycardia	Diagnosis	ICD-10-CM
I47.0	Re-entry ventricular arrhythmia	Diagnosis	ICD-10-CM
I47.1	Supraventricular tachycardia	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	Diagnosis	ICD-10-CM
I47.9	Paroxysmal tachycardia, unspecified	Diagnosis	ICD-10-CM
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.11	Longstanding persistent atrial fibrillation	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I48.19	Other persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.20	Chronic atrial fibrillation, unspecified	Diagnosis	ICD-10-CM
I48.21	Permanent atrial fibrillation	Diagnosis	ICD-10-CM
I48.3	Typical atrial flutter	Diagnosis	ICD-10-CM
I48.4	Atypical atrial flutter	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
I48.92	Unspecified atrial flutter	Diagnosis	ICD-10-CM
I49.0	Ventricular fibrillation and flutter	Diagnosis	ICD-10-CM
I49.01	Ventricular fibrillation	Diagnosis	ICD-10-CM
I49.02	Ventricular flutter	Diagnosis	ICD-10-CM
I49.5	Sick sinus syndrome	Diagnosis	ICD-10-CM
I49.8	Other specified cardiac arrhythmias	Diagnosis	ICD-10-CM
I49.9	Cardiac arrhythmia, unspecified	Diagnosis	ICD-10-CM
I50	Heart failure	Diagnosis	ICD-10-CM
I50.1	Left ventricular failure, unspecified	Diagnosis	ICD-10-CM
I50.2	Systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.20	Unspecified systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.21	Acute systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.22	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.23	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.3	Diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.30	Unspecified diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.31	Acute diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.32	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.33	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.4	Combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.8	Other heart failure	Diagnosis	ICD-10-CM
I50.81	Right heart failure	Diagnosis	ICD-10-CM
I50.810	Right heart failure, unspecified	Diagnosis	ICD-10-CM
I50.811	Acute right heart failure	Diagnosis	ICD-10-CM
I50.812	Chronic right heart failure	Diagnosis	ICD-10-CM
I50.813	Acute on chronic right heart failure	Diagnosis	ICD-10-CM
I50.814	Right heart failure due to left heart failure	Diagnosis	ICD-10-CM
I50.82	Biventricular heart failure	Diagnosis	ICD-10-CM
I50.83	High output heart failure	Diagnosis	ICD-10-CM
I50.84	End stage heart failure	Diagnosis	ICD-10-CM
I50.89	Other heart failure	Diagnosis	ICD-10-CM
I50.9	Heart failure, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I51	Complications and ill-defined descriptions of heart disease	Diagnosis	ICD-10-CM
I51.0	Cardiac septal defect, acquired	Diagnosis	ICD-10-CM
I51.1	Rupture of chordae tendineae, not elsewhere classified	Diagnosis	ICD-10-CM
I51.2	Rupture of papillary muscle, not elsewhere classified	Diagnosis	ICD-10-CM
I51.3	Intracardiac thrombosis, not elsewhere classified	Diagnosis	ICD-10-CM
I51.4	Myocarditis, unspecified	Diagnosis	ICD-10-CM
I51.5	Myocardial degeneration	Diagnosis	ICD-10-CM
I51.7	Cardiomegaly	Diagnosis	ICD-10-CM
I51.8	Other ill-defined heart diseases	Diagnosis	ICD-10-CM
I51.81	Takotsubo syndrome	Diagnosis	ICD-10-CM
I51.89	Other ill-defined heart diseases	Diagnosis	ICD-10-CM
I51.9	Heart disease, unspecified	Diagnosis	ICD-10-CM
I52	Other heart disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
I60.2	Nontraumatic subarachnoid hemorrhage from anterior communicating artery	Diagnosis	ICD-10-CM
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I63.89	Other cerebral infarction	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
I70	Atherosclerosis	Diagnosis	ICD-10-CM
I70.0	Atherosclerosis of aorta	Diagnosis	ICD-10-CM
I70.1	Atherosclerosis of renal artery	Diagnosis	ICD-10-CM
I70.2	Atherosclerosis of native arteries of the extremities	Diagnosis	ICD-10-CM
I70.20	Unspecified atherosclerosis of native arteries of extremities	Diagnosis	ICD-10-CM
I70.201	Unspecified atherosclerosis of native arteries of extremities, right leg	Diagnosis	ICD-10-CM
I70.202	Unspecified atherosclerosis of native arteries of extremities, left leg	Diagnosis	ICD-10-CM
I70.203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.208	Unspecified atherosclerosis of native arteries of extremities, other extremity	Diagnosis	ICD-10-CM
I70.209	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.21	Atherosclerosis of native arteries of extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70.211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I70.212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.218	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.219	Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.22	Atherosclerosis of native arteries of extremities with rest pain	Diagnosis	ICD-10-CM
I70.221	Atherosclerosis of native arteries of extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.222	Atherosclerosis of native arteries of extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.228	Atherosclerosis of native arteries of extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.229	Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.23	Atherosclerosis of native arteries of right leg with ulceration	Diagnosis	ICD-10-CM
I70.231	Atherosclerosis of native arteries of right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.232	Atherosclerosis of native arteries of right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.233	Atherosclerosis of native arteries of right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.239	Atherosclerosis of native arteries of right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.24	Atherosclerosis of native arteries of left leg with ulceration	Diagnosis	ICD-10-CM
I70.241	Atherosclerosis of native arteries of left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.242	Atherosclerosis of native arteries of left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.243	Atherosclerosis of native arteries of left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.249	Atherosclerosis of native arteries of left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.25	Atherosclerosis of native arteries of other extremities with ulceration	Diagnosis	ICD-10-CM
I70.26	Atherosclerosis of native arteries of extremities with gangrene	Diagnosis	ICD-10-CM
I70.261	Atherosclerosis of native arteries of extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.262	Atherosclerosis of native arteries of extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.268	Atherosclerosis of native arteries of extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.29	Other atherosclerosis of native arteries of extremities	Diagnosis	ICD-10-CM
I70.291	Other atherosclerosis of native arteries of extremities, right leg	Diagnosis	ICD-10-CM
I70.292	Other atherosclerosis of native arteries of extremities, left leg	Diagnosis	ICD-10-CM
I70.293	Other atherosclerosis of native arteries of extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.298	Other atherosclerosis of native arteries of extremities, other extremity	Diagnosis	ICD-10-CM
I70.299	Other atherosclerosis of native arteries of extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.3	Atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.30	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.301	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.302	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.303	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.308	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.309	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.31	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70.311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70.312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.319	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.32	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70.321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.329	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.33	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70.331	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.332	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.333	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.334	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.335	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.338	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.339	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.34	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70.341	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.342	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.343	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.344	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.345	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.348	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.349	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.35	Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I70.36	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70.361	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.362	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.363	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.368	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.369	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.39	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.399	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.4	Atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.40	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.409	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.41	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70.411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70.412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.419	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.42	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70.421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.429	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.43	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70.431	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.432	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.433	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.434	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.439	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.44	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70.441	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.442	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.443	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.444	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.449	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.45	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I70.46	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70.461	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.462	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.463	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.469	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.49	Other atherosclerosis of autologous vein bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.499	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.5	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.50	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.509	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.51	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities intermittent claudication	Diagnosis	ICD-10-CM
I70.511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70.512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.519	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.52	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70.521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.529	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.53	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70.531	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.532	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.533	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.534	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.539	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.54	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70.541	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.542	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.543	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.544	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.545	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.548	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.549	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.55	Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I70.56	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70.561	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.562	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.563	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.568	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.569	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.59	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.591	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.592	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.593	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.598	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.599	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.6	Atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.60	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.601	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.602	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.603	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.608	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.609	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.61	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70.611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70.612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.619	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.62	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70.621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.629	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.63	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70.631	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.632	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.633	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.634	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.635	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.638	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.639	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.64	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70.641	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.642	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.643	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.644	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.645	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.648	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.649	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.65	Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I70.66	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70.661	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.662	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.663	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.668	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.669	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.69	Other atherosclerosis of nonbiological bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.691	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.699	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.7	Atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.70	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.701	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.702	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
I70.703	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.708	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.709	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.71	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication	Diagnosis	ICD-10-CM
I70.711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg	Diagnosis	ICD-10-CM
I70.712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg	Diagnosis	ICD-10-CM
I70.713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs	Diagnosis	ICD-10-CM
I70.718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity	Diagnosis	ICD-10-CM
I70.719	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity	Diagnosis	ICD-10-CM
I70.72	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain	Diagnosis	ICD-10-CM
I70.721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg	Diagnosis	ICD-10-CM
I70.722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg	Diagnosis	ICD-10-CM
I70.723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs	Diagnosis	ICD-10-CM
I70.728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity	Diagnosis	ICD-10-CM
I70.729	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity	Diagnosis	ICD-10-CM
I70.73	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration	Diagnosis	ICD-10-CM
I70.731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf	Diagnosis	ICD-10-CM
I70.733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.739	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.74	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration	Diagnosis	ICD-10-CM
I70.741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh	Diagnosis	ICD-10-CM
I70.742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I70.743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle	Diagnosis	ICD-10-CM
I70.744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot	Diagnosis	ICD-10-CM
I70.745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot	Diagnosis	ICD-10-CM
I70.748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg	Diagnosis	ICD-10-CM
I70.749	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site	Diagnosis	ICD-10-CM
I70.75	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration	Diagnosis	ICD-10-CM
I70.76	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene	Diagnosis	ICD-10-CM
I70.761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg	Diagnosis	ICD-10-CM
I70.762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg	Diagnosis	ICD-10-CM
I70.763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs	Diagnosis	ICD-10-CM
I70.768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity	Diagnosis	ICD-10-CM
I70.769	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity	Diagnosis	ICD-10-CM
I70.79	Other atherosclerosis of other type of bypass graft(s) of the extremities	Diagnosis	ICD-10-CM
I70.791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg	Diagnosis	ICD-10-CM
I70.792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg	Diagnosis	ICD-10-CM
I70.793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs	Diagnosis	ICD-10-CM
I70.798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity	Diagnosis	ICD-10-CM
I70.799	Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity	Diagnosis	ICD-10-CM
I70.8	Atherosclerosis of other arteries	Diagnosis	ICD-10-CM
I70.9	Other and unspecified atherosclerosis	Diagnosis	ICD-10-CM
I70.90	Unspecified atherosclerosis	Diagnosis	ICD-10-CM
I70.91	Generalized atherosclerosis	Diagnosis	ICD-10-CM
I70.92	Chronic total occlusion of artery of the extremities	Diagnosis	ICD-10-CM
I71	Aortic aneurysm and dissection	Diagnosis	ICD-10-CM
I71.0	Dissection of aorta	Diagnosis	ICD-10-CM
I71.00	Dissection of unspecified site of aorta	Diagnosis	ICD-10-CM
I71.01	Dissection of thoracic aorta	Diagnosis	ICD-10-CM
I71.02	Dissection of abdominal aorta	Diagnosis	ICD-10-CM
I71.03	Dissection of thoracoabdominal aorta	Diagnosis	ICD-10-CM
I71.1	Thoracic aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I71.2	Thoracic aortic aneurysm, without rupture	Diagnosis	ICD-10-CM
I71.3	Abdominal aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I71.4	Abdominal aortic aneurysm, without rupture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I71.5	Thoracoabdominal aortic aneurysm, ruptured	Diagnosis	ICD-10-CM
I71.6	Thoracoabdominal aortic aneurysm, without rupture	Diagnosis	ICD-10-CM
I71.8	Aortic aneurysm of unspecified site, ruptured	Diagnosis	ICD-10-CM
I71.9	Aortic aneurysm of unspecified site, without rupture	Diagnosis	ICD-10-CM
I72	Other aneurysm	Diagnosis	ICD-10-CM
I72.0	Aneurysm of carotid artery	Diagnosis	ICD-10-CM
I72.1	Aneurysm of artery of upper extremity	Diagnosis	ICD-10-CM
I72.2	Aneurysm of renal artery	Diagnosis	ICD-10-CM
I72.3	Aneurysm of iliac artery	Diagnosis	ICD-10-CM
I72.4	Aneurysm of artery of lower extremity	Diagnosis	ICD-10-CM
I72.5	Aneurysm of other precerebral arteries	Diagnosis	ICD-10-CM
I72.6	Aneurysm of vertebral artery	Diagnosis	ICD-10-CM
I72.8	Aneurysm of other specified arteries	Diagnosis	ICD-10-CM
I72.9	Aneurysm of unspecified site	Diagnosis	ICD-10-CM
I73	Other peripheral vascular diseases	Diagnosis	ICD-10-CM
I73.1	Thromboangiitis obliterans [Buerger's disease]	Diagnosis	ICD-10-CM
I73.89	Other specified peripheral vascular diseases	Diagnosis	ICD-10-CM
I73.9	Peripheral vascular disease, unspecified	Diagnosis	ICD-10-CM
I74	Arterial embolism and thrombosis	Diagnosis	ICD-10-CM
I74.0	Embolism and thrombosis of abdominal aorta	Diagnosis	ICD-10-CM
I74.01	Saddle embolus of abdominal aorta	Diagnosis	ICD-10-CM
I74.09	Other arterial embolism and thrombosis of abdominal aorta	Diagnosis	ICD-10-CM
I74.1	Embolism and thrombosis of other and unspecified parts of aorta	Diagnosis	ICD-10-CM
I74.10	Embolism and thrombosis of unspecified parts of aorta	Diagnosis	ICD-10-CM
I74.11	Embolism and thrombosis of thoracic aorta	Diagnosis	ICD-10-CM
I74.19	Embolism and thrombosis of other parts of aorta	Diagnosis	ICD-10-CM
I74.2	Embolism and thrombosis of arteries of the upper extremities	Diagnosis	ICD-10-CM
I74.3	Embolism and thrombosis of arteries of the lower extremities	Diagnosis	ICD-10-CM
I74.4	Embolism and thrombosis of arteries of extremities, unspecified	Diagnosis	ICD-10-CM
I74.5	Embolism and thrombosis of iliac artery	Diagnosis	ICD-10-CM
I74.8	Embolism and thrombosis of other arteries	Diagnosis	ICD-10-CM
I74.9	Embolism and thrombosis of unspecified artery	Diagnosis	ICD-10-CM
I75	Atheroembolism	Diagnosis	ICD-10-CM
I75.0	Atheroembolism of extremities	Diagnosis	ICD-10-CM
I75.01	Atheroembolism of upper extremity	Diagnosis	ICD-10-CM
I75.011	Atheroembolism of right upper extremity	Diagnosis	ICD-10-CM
I75.012	Atheroembolism of left upper extremity	Diagnosis	ICD-10-CM
I75.013	Atheroembolism of bilateral upper extremities	Diagnosis	ICD-10-CM
I75.019	Atheroembolism of unspecified upper extremity	Diagnosis	ICD-10-CM
I75.02	Atheroembolism of lower extremity	Diagnosis	ICD-10-CM
I75.021	Atheroembolism of right lower extremity	Diagnosis	ICD-10-CM
I75.022	Atheroembolism of left lower extremity	Diagnosis	ICD-10-CM
I75.023	Atheroembolism of bilateral lower extremities	Diagnosis	ICD-10-CM
I75.029	Atheroembolism of unspecified lower extremity	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I75.8	Atheroembolism of other sites	Diagnosis	ICD-10-CM
I75.81	Atheroembolism of kidney	Diagnosis	ICD-10-CM
I75.89	Atheroembolism of other site	Diagnosis	ICD-10-CM
I76	Septic arterial embolism	Diagnosis	ICD-10-CM
I77	Other disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I77.0	Arteriovenous fistula, acquired	Diagnosis	ICD-10-CM
I77.1	Stricture of artery	Diagnosis	ICD-10-CM
I77.2	Rupture of artery	Diagnosis	ICD-10-CM
I77.3	Arterial fibromuscular dysplasia	Diagnosis	ICD-10-CM
I77.4	Celiac artery compression syndrome	Diagnosis	ICD-10-CM
I77.5	Necrosis of artery	Diagnosis	ICD-10-CM
I77.6	Arteritis, unspecified	Diagnosis	ICD-10-CM
I77.7	Other arterial dissection	Diagnosis	ICD-10-CM
I77.70	Dissection of unspecified artery	Diagnosis	ICD-10-CM
I77.71	Dissection of carotid artery	Diagnosis	ICD-10-CM
I77.72	Dissection of iliac artery	Diagnosis	ICD-10-CM
I77.73	Dissection of renal artery	Diagnosis	ICD-10-CM
I77.74	Dissection of vertebral artery	Diagnosis	ICD-10-CM
I77.75	Dissection of other precerebral arteries	Diagnosis	ICD-10-CM
I77.76	Dissection of artery of upper extremity	Diagnosis	ICD-10-CM
I77.77	Dissection of artery of lower extremity	Diagnosis	ICD-10-CM
I77.79	Dissection of other specified artery	Diagnosis	ICD-10-CM
I77.8	Other specified disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I77.81	Aortic ectasia	Diagnosis	ICD-10-CM
I77.810	Thoracic aortic ectasia	Diagnosis	ICD-10-CM
I77.811	Abdominal aortic ectasia	Diagnosis	ICD-10-CM
I77.812	Thoracoabdominal aortic ectasia	Diagnosis	ICD-10-CM
I77.819	Aortic ectasia, unspecified site	Diagnosis	ICD-10-CM
I77.89	Other specified disorders of arteries and arterioles	Diagnosis	ICD-10-CM
I77.9	Disorder of arteries and arterioles, unspecified	Diagnosis	ICD-10-CM
I78	Diseases of capillaries	Diagnosis	ICD-10-CM
I78.0	Hereditary hemorrhagic telangiectasia	Diagnosis	ICD-10-CM
I82.21	Embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM
I82.210	Acute embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM
I82.211	Chronic embolism and thrombosis of superior vena cava	Diagnosis	ICD-10-CM
I82.22	Embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I82.220	Acute embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I82.221	Chronic embolism and thrombosis of inferior vena cava	Diagnosis	ICD-10-CM
I87.00	Postthrombotic syndrome without complications	Diagnosis	ICD-10-CM
I87.001	Postthrombotic syndrome without complications of right lower extremity	Diagnosis	ICD-10-CM
I87.002	Postthrombotic syndrome without complications of left lower extremity	Diagnosis	ICD-10-CM
I87.003	Postthrombotic syndrome without complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.009	Postthrombotic syndrome without complications of unspecified extremity	Diagnosis	ICD-10-CM
I87.01	Postthrombotic syndrome with ulcer	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I87.011	Postthrombotic syndrome with ulcer of right lower extremity	Diagnosis	ICD-10-CM
I87.012	Postthrombotic syndrome with ulcer of left lower extremity	Diagnosis	ICD-10-CM
I87.013	Postthrombotic syndrome with ulcer of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.019	Postthrombotic syndrome with ulcer of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.02	Postthrombotic syndrome with inflammation	Diagnosis	ICD-10-CM
I87.021	Postthrombotic syndrome with inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87.022	Postthrombotic syndrome with inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87.023	Postthrombotic syndrome with inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.029	Postthrombotic syndrome with inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.03	Postthrombotic syndrome with ulcer and inflammation	Diagnosis	ICD-10-CM
I87.031	Postthrombotic syndrome with ulcer and inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87.032	Postthrombotic syndrome with ulcer and inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87.033	Postthrombotic syndrome with ulcer and inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.039	Postthrombotic syndrome with ulcer and inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.09	Postthrombotic syndrome with other complications	Diagnosis	ICD-10-CM
I87.091	Postthrombotic syndrome with other complications of right lower extremity	Diagnosis	ICD-10-CM
I87.092	Postthrombotic syndrome with other complications of left lower extremity	Diagnosis	ICD-10-CM
I87.093	Postthrombotic syndrome with other complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.099	Postthrombotic syndrome with other complications of unspecified lower extremity	Diagnosis	ICD-10-CM
I97.13	Postprocedural heart failure	Diagnosis	ICD-10-CM
I97.130	Postprocedural heart failure following cardiac surgery	Diagnosis	ICD-10-CM
I97.131	Postprocedural heart failure following other surgery	Diagnosis	ICD-10-CM
J0791	Injection, crizanlizumab-tmca, 5 mg	Procedure	HCPCS
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J43	Emphysema	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J43.8	Other emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM
J44	Other chronic obstructive pulmonary disease	Diagnosis	ICD-10-CM
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J45	Asthma	Diagnosis	ICD-10-CM
J45.2	Mild intermittent asthma	Diagnosis	ICD-10-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.3	Mild persistent asthma	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.4	Moderate persistent asthma	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.5	Severe persistent asthma	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.9	Other and unspecified asthma	Diagnosis	ICD-10-CM
J45.90	Unspecified asthma	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.99	Other asthma	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J47.1	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
J61	Pneumoconiosis due to asbestos and other mineral fibers	Diagnosis	ICD-10-CM
J62	Pneumoconiosis due to dust containing silica	Diagnosis	ICD-10-CM
J62.8	Pneumoconiosis due to other dust containing silica	Diagnosis	ICD-10-CM
J63	Pneumoconiosis due to other inorganic dusts	Diagnosis	ICD-10-CM
J63.6	Pneumoconiosis due to other specified inorganic dusts	Diagnosis	ICD-10-CM
J65	Pneumoconiosis associated with tuberculosis	Diagnosis	ICD-10-CM
J66	Airway disease due to specific organic dust	Diagnosis	ICD-10-CM
J66.0	Byssinosis	Diagnosis	ICD-10-CM
J66.1	Flax-dressers' disease	Diagnosis	ICD-10-CM
J66.2	Cannabinosis	Diagnosis	ICD-10-CM
J66.8	Airway disease due to other specific organic dusts	Diagnosis	ICD-10-CM
J67	Hypersensitivity pneumonitis due to organic dust	Diagnosis	ICD-10-CM
J67.0	Farmer's lung	Diagnosis	ICD-10-CM
J67.1	Bagassosis	Diagnosis	ICD-10-CM
J67.2	Bird fancier's lung	Diagnosis	ICD-10-CM
J67.3	Suberosis	Diagnosis	ICD-10-CM
J67.4	Maltworker's lung	Diagnosis	ICD-10-CM
J67.5	Mushroom-worker's lung	Diagnosis	ICD-10-CM
J67.6	Maple-bark-stripper's lung	Diagnosis	ICD-10-CM
J67.7	Air conditioner and humidifier lung	Diagnosis	ICD-10-CM
J67.8	Hypersensitivity pneumonitis due to other organic dusts	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
J67.9	Hypersensitivity pneumonitis due to unspecified organic dust	Diagnosis	ICD-10-CM
J68	Respiratory conditions due to inhalation of chemicals, gases, fumes and vapors	Diagnosis	ICD-10-CM
J68.0	Bronchitis and pneumonitis due to chemicals, gases, fumes and vapors	Diagnosis	ICD-10-CM
J68.4	Chronic respiratory conditions due to chemicals, gases, fumes and vapors	Diagnosis	ICD-10-CM
J68.8	Other respiratory conditions due to chemicals, gases, fumes and vapors	Diagnosis	ICD-10-CM
J68.9	Unspecified respiratory condition due to chemicals, gases, fumes and vapors	Diagnosis	ICD-10-CM
J70	Respiratory conditions due to other external agents	Diagnosis	ICD-10-CM
J70.1	Chronic and other pulmonary manifestations due to radiation	Diagnosis	ICD-10-CM
J70.3	Chronic drug-induced interstitial lung disorders	Diagnosis	ICD-10-CM
J70.4	Drug-induced interstitial lung disorders, unspecified	Diagnosis	ICD-10-CM
J70.5	Respiratory conditions due to smoke inhalation	Diagnosis	ICD-10-CM
J70.8	Respiratory conditions due to other specified external agents	Diagnosis	ICD-10-CM
J70.9	Respiratory conditions due to unspecified external agent	Diagnosis	ICD-10-CM
J82	Pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J82.8	Pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J82.89	Other pulmonary eosinophilia, not elsewhere classified	Diagnosis	ICD-10-CM
J84.1	Other interstitial pulmonary diseases with fibrosis	Diagnosis	ICD-10-CM
J84.10	Pulmonary fibrosis, unspecified	Diagnosis	ICD-10-CM
J84.111	Idiopathic interstitial pneumonia, not otherwise specified	Diagnosis	ICD-10-CM
J84.113	Idiopathic non-specific interstitial pneumonitis	Diagnosis	ICD-10-CM
J84.115	Respiratory bronchiolitis interstitial lung disease	Diagnosis	ICD-10-CM
J84.117	Desquamative interstitial pneumonia	Diagnosis	ICD-10-CM
J84.17	Other interstitial pulmonary diseases with fibrosis in diseases classified elsewhere	Diagnosis	ICD-10-CM
J84.170	Interstitial lung disease with progressive fibrotic phenotype in diseases classified elsewhere	Diagnosis	ICD-10-CM
J84.178	Other interstitial pulmonary diseases with fibrosis in diseases classified elsewhere	Diagnosis	ICD-10-CM
J84.8	Other specified interstitial pulmonary diseases	Diagnosis	ICD-10-CM
J84.82	Adult pulmonary Langerhans cell histiocytosis	Diagnosis	ICD-10-CM
J84.84	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
J84.841	Neuroendocrine cell hyperplasia of infancy	Diagnosis	ICD-10-CM
J84.842	Pulmonary interstitial glycogenosis	Diagnosis	ICD-10-CM
J84.843	Alveolar capillary dysplasia with vein misalignment	Diagnosis	ICD-10-CM
J84.848	Other interstitial lung diseases of childhood	Diagnosis	ICD-10-CM
J84.89	Other specified interstitial pulmonary diseases	Diagnosis	ICD-10-CM
J84.9	Interstitial pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J91	Pleural effusion in conditions classified elsewhere	Diagnosis	ICD-10-CM
J92.0	Pleural plaque with presence of asbestos	Diagnosis	ICD-10-CM
J96.1	Chronic respiratory failure	Diagnosis	ICD-10-CM
J98.2	Interstitial emphysema	Diagnosis	ICD-10-CM
J98.3	Compensatory emphysema	Diagnosis	ICD-10-CM
J98.4	Other disorders of lung	Diagnosis	ICD-10-CM
J98.9	Respiratory disorder, unspecified	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
K95.01	Infection due to gastric band procedure	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
K95.09	Other complications of gastric band procedure	Diagnosis	ICD-10-CM
K95.81	Infection due to other bariatric procedure	Diagnosis	ICD-10-CM
K95.89	Other complications of other bariatric procedure	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N11.0	Nonobstructive reflux-associated chronic pyelonephritis	Diagnosis	ICD-10-CM
N11.1	Chronic obstructive pyelonephritis	Diagnosis	ICD-10-CM
N11.8	Other chronic tubulo-interstitial nephritis	Diagnosis	ICD-10-CM
N11.9	Chronic tubulo-interstitial nephritis, unspecified	Diagnosis	ICD-10-CM
N12	Tubulo-interstitial nephritis, not specified as acute or chronic	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N25.0	Renal osteodystrophy	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
N28.89	Other specified disorders of kidney and ureter	Diagnosis	ICD-10-CM
N28.9	Disorder of kidney and ureter, unspecified	Diagnosis	ICD-10-CM
N29	Other disorders of kidney and ureter in diseases classified elsewhere	Diagnosis	ICD-10-CM
O10.2	Pre-existing hypertensive chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10.21	Pre-existing hypertensive chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O10.211	Pre-existing hypertensive chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10.212	Pre-existing hypertensive chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O10.213	Pre-existing hypertensive chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10.219	Pre-existing hypertensive chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O10.22	Pre-existing hypertensive chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.23	Pre-existing hypertensive chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
O10.3	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O10.31	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy	Diagnosis	ICD-10-CM
O10.311	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O10.312	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O10.313	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O10.319	Pre-existing hypertensive heart and chronic kidney disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O10.32	Pre-existing hypertensive heart and chronic kidney disease complicating childbirth	Diagnosis	ICD-10-CM
O10.33	Pre-existing hypertensive heart and chronic kidney disease complicating the puerperium	Diagnosis	ICD-10-CM
O24.0	Pre-existing type 1 diabetes mellitus, in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24.01	Pre-existing type 1 diabetes mellitus, in pregnancy	Diagnosis	ICD-10-CM
O24.011	Pre-existing type 1 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.012	Pre-existing type 1 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.013	Pre-existing type 1 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.019	Pre-existing type 1 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.02	Pre-existing type 1 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.03	Pre-existing type 1 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24.1	Pre-existing type 2 diabetes mellitus, in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24.11	Pre-existing type 2 diabetes mellitus, in pregnancy	Diagnosis	ICD-10-CM
O24.111	Pre-existing type 2 diabetes mellitus, in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.112	Pre-existing type 2 diabetes mellitus, in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.113	Pre-existing type 2 diabetes mellitus, in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.119	Pre-existing type 2 diabetes mellitus, in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.12	Pre-existing type 2 diabetes mellitus, in childbirth	Diagnosis	ICD-10-CM
O24.13	Pre-existing type 2 diabetes mellitus, in the puerperium	Diagnosis	ICD-10-CM
O24.3	Unspecified pre-existing diabetes mellitus in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24.31	Unspecified pre-existing diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O24.311	Unspecified pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.312	Unspecified pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.313	Unspecified pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.319	Unspecified pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.32	Unspecified pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O24.33	Unspecified pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24.41	Gestational diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O24.410	Gestational diabetes mellitus in pregnancy, diet controlled	Diagnosis	ICD-10-CM
O24.414	Gestational diabetes mellitus in pregnancy, insulin controlled	Diagnosis	ICD-10-CM
O24.415	Gestational diabetes mellitus in pregnancy, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.419	Gestational diabetes mellitus in pregnancy, unspecified control	Diagnosis	ICD-10-CM
O24.42	Gestational diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.420	Gestational diabetes mellitus in childbirth, diet controlled	Diagnosis	ICD-10-CM
O24.424	Gestational diabetes mellitus in childbirth, insulin controlled	Diagnosis	ICD-10-CM
O24.425	Gestational diabetes mellitus in childbirth, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.429	Gestational diabetes mellitus in childbirth, unspecified control	Diagnosis	ICD-10-CM
O24.43	Gestational diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24.430	Gestational diabetes mellitus in the puerperium, diet controlled	Diagnosis	ICD-10-CM
O24.434	Gestational diabetes mellitus in the puerperium, insulin controlled	Diagnosis	ICD-10-CM
O24.435	Gestational diabetes mellitus in puerperium, controlled by oral hypoglycemic drugs	Diagnosis	ICD-10-CM
O24.439	Gestational diabetes mellitus in the puerperium, unspecified control	Diagnosis	ICD-10-CM
O24.811	Other pre-existing diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.812	Other pre-existing diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.813	Other pre-existing diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.819	Other pre-existing diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.82	Other pre-existing diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.83	Other pre-existing diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O24.9	Unspecified diabetes mellitus in pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O24.91	Unspecified diabetes mellitus in pregnancy	Diagnosis	ICD-10-CM
O24.911	Unspecified diabetes mellitus in pregnancy, first trimester	Diagnosis	ICD-10-CM
O24.912	Unspecified diabetes mellitus in pregnancy, second trimester	Diagnosis	ICD-10-CM
O24.913	Unspecified diabetes mellitus in pregnancy, third trimester	Diagnosis	ICD-10-CM
O24.919	Unspecified diabetes mellitus in pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O24.92	Unspecified diabetes mellitus in childbirth	Diagnosis	ICD-10-CM
O24.93	Unspecified diabetes mellitus in the puerperium	Diagnosis	ICD-10-CM
O98.7	Human immunodeficiency virus [HIV] disease complicating pregnancy, childbirth and the puerperium	Diagnosis	ICD-10-CM
O98.71	Human immunodeficiency virus [HIV] disease complicating pregnancy	Diagnosis	ICD-10-CM
O98.711	Human immunodeficiency virus [HIV] disease complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O98.712	Human immunodeficiency virus [HIV] disease complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O98.713	Human immunodeficiency virus [HIV] disease complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O98.719	Human immunodeficiency virus [HIV] disease complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O98.72	Human immunodeficiency virus [HIV] disease complicating childbirth	Diagnosis	ICD-10-CM
O98.73	Human immunodeficiency virus [HIV] disease complicating the puerperium	Diagnosis	ICD-10-CM
O99.210	Obesity complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.211	Obesity complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.212	Obesity complicating pregnancy, second trimester	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
O99.213	Obesity complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99.215	Obesity complicating the puerperium	Diagnosis	ICD-10-CM
O99.840	Bariatric surgery status complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.841	Bariatric surgery status complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.842	Bariatric surgery status complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.843	Bariatric surgery status complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O99.845	Bariatric surgery status complicating the puerperium	Diagnosis	ICD-10-CM
P25	Interstitial emphysema and related conditions originating in the perinatal period	Diagnosis	ICD-10-CM
P27	Chronic respiratory disease originating in the perinatal period	Diagnosis	ICD-10-CM
P27.0	Wilson-Mikity syndrome	Diagnosis	ICD-10-CM
P27.1	Bronchopulmonary dysplasia originating in the perinatal period	Diagnosis	ICD-10-CM
P27.8	Other chronic respiratory diseases originating in the perinatal period	Diagnosis	ICD-10-CM
P27.9	Unspecified chronic respiratory disease originating in the perinatal period	Diagnosis	ICD-10-CM
P29.3	Persistent fetal circulation	Diagnosis	ICD-10-CM
P29.38	Other persistent fetal circulation	Diagnosis	ICD-10-CM
P29.8	Other cardiovascular disorders originating in the perinatal period	Diagnosis	ICD-10-CM
Q20	Congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q20.0	Common arterial trunk	Diagnosis	ICD-10-CM
Q20.1	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q20.2	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q20.3	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q20.4	Double inlet ventricle	Diagnosis	ICD-10-CM
Q20.5	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q20.6	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q20.8	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified	Diagnosis	ICD-10-CM
Q21	Congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q21.0	Ventricular septal defect	Diagnosis	ICD-10-CM
Q21.1	Atrial septal defect	Diagnosis	ICD-10-CM
Q21.2	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q21.3	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q21.4	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q21.8	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q21.9	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q22	Congenital malformations of pulmonary and tricuspid valves	Diagnosis	ICD-10-CM
Q22.0	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q22.1	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q22.2	Congenital pulmonary valve insufficiency	Diagnosis	ICD-10-CM
Q22.3	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q22.4	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q22.5	Ebstein's anomaly	Diagnosis	ICD-10-CM
Q22.6	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q22.8	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
Q22.9	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q23	Congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q23.0	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q23.1	Congenital insufficiency of aortic valve	Diagnosis	ICD-10-CM
Q23.2	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q23.3	Congenital mitral insufficiency	Diagnosis	ICD-10-CM
Q23.4	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q23.8	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q23.9	Congenital malformation of aortic and mitral valves, unspecified	Diagnosis	ICD-10-CM
Q24	Other congenital malformations of heart	Diagnosis	ICD-10-CM
Q24.0	Dextrocardia	Diagnosis	ICD-10-CM
Q24.1	Levocardia	Diagnosis	ICD-10-CM
Q24.2	Cor triatriatum	Diagnosis	ICD-10-CM
Q24.3	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q24.4	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q24.5	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q24.6	Congenital heart block	Diagnosis	ICD-10-CM
Q24.8	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q24.9	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM
Q25.0	Patent ductus arteriosus	Diagnosis	ICD-10-CM
Q25.1	Coarctation of aorta	Diagnosis	ICD-10-CM
Q25.21	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q25.29	Other atresia of aorta	Diagnosis	ICD-10-CM
Q25.3	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q25.40	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q25.41	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q25.42	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q25.43	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q25.44	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q25.45	Double aortic arch	Diagnosis	ICD-10-CM
Q25.46	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q25.47	Right aortic arch	Diagnosis	ICD-10-CM
Q25.48	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q25.49	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q25.5	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q25.6	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q25.71	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q25.72	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q25.79	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q25.8	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
Q25.9	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM
Q26.0	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q26.1	Persistent left superior vena cava	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q26.4	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
Q87.40	Marfan's syndrome, unspecified	Diagnosis	ICD-10-CM
Q87.41	Marfan's syndrome with cardiovascular manifestations	Diagnosis	ICD-10-CM
Q87.410	Marfan's syndrome with aortic dilation	Diagnosis	ICD-10-CM
Q87.418	Marfan's syndrome with other cardiovascular manifestations	Diagnosis	ICD-10-CM
Q87.82	Arterial tortuosity syndrome	Diagnosis	ICD-10-CM
Q89.01	Asplenia (congenital)	Diagnosis	ICD-10-CM
Q89.09	Congenital malformations of spleen	Diagnosis	ICD-10-CM
Q90.0	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.1	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q90.2	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q90.9	Down syndrome, unspecified	Diagnosis	ICD-10-CM
Q91.0	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.1	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.2	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q91.3	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q91.4	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.5	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q91.6	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q91.7	Trisomy 13, unspecified	Diagnosis	ICD-10-CM
Q93.81	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q93.82	Williams syndrome	Diagnosis	ICD-10-CM
R94.4	Abnormal results of kidney function studies	Diagnosis	ICD-10-CM
T86.22	Heart transplant failure	Diagnosis	ICD-10-CM
Z21	Asymptomatic human immunodeficiency virus [HIV] infection status	Diagnosis	ICD-10-CM
Z49	Encounter for care involving renal dialysis	Diagnosis	ICD-10-CM
Z49.01	Encounter for fitting and adjustment of extracorporeal dialysis catheter	Diagnosis	ICD-10-CM
Z49.02	Encounter for fitting and adjustment of peritoneal dialysis catheter	Diagnosis	ICD-10-CM
Z49.31	Encounter for adequacy testing for hemodialysis	Diagnosis	ICD-10-CM
Z49.32	Encounter for adequacy testing for peritoneal dialysis	Diagnosis	ICD-10-CM
Z68.25	Body mass index (BMI) 25.0-25.9, adult	Diagnosis	ICD-10-CM
Z68.26	Body mass index (BMI) 26.0-26.9, adult	Diagnosis	ICD-10-CM
Z68.27	Body mass index (BMI) 27.0-27.9, adult	Diagnosis	ICD-10-CM
Z68.28	Body mass index (BMI) 28.0-28.9, adult	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
Z68.29	Body mass index (BMI) 29.0-29.9, adult	Diagnosis	ICD-10-CM
Z68.30	Body mass index [BMI] 30.0-30.9, adult	Diagnosis	ICD-10-CM
Z68.31	Body mass index [BMI] 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index [BMI] 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index [BMI] 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index [BMI] 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z68.35	Body mass index [BMI] 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z68.36	Body mass index [BMI] 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index [BMI] 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index [BMI] 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index [BMI] 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.41	Body mass index [BMI] 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index [BMI] 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index [BMI] 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index [BMI] 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index [BMI] 70 or greater, adult	Diagnosis	ICD-10-CM
Z68.53	Body mass index (BMI) pediatric, 85th percentile to less than 95th percentile for age	Diagnosis	ICD-10-CM
Z68.54	Body mass index (BMI) pediatric, greater than or equal to 95th percentile for age	Diagnosis	ICD-10-CM
Z91.15	Patient's noncompliance with renal dialysis	Diagnosis	ICD-10-CM
Z95.1	Presence of aortocoronary bypass graft	Diagnosis	ICD-10-CM
Z95.5	Presence of coronary angioplasty implant and graft	Diagnosis	ICD-10-CM
Z98.61	Coronary angioplasty status	Diagnosis	ICD-10-CM
Z98.84	Bariatric surgery status	Diagnosis	ICD-10-CM
Z99.2	Dependence on renal dialysis	Diagnosis	ICD-10-CM
Treatment-Dependent Immune Deficiencies			
B18.0	Chronic viral hepatitis B with delta-agent	Diagnosis	ICD-10-CM
B18.1	Chronic viral hepatitis B without delta-agent	Diagnosis	ICD-10-CM
B18.2	Chronic viral hepatitis C	Diagnosis	ICD-10-CM
B18.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D61.0	Constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	Diagnosis	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D69.0	Allergic purpura	Diagnosis	ICD-10-CM
D69.2	Other nonthrombocytopenic purpura	Diagnosis	ICD-10-CM
D69.3	Immune thrombocytopenic purpura	Diagnosis	ICD-10-CM
D69.41	Evans syndrome	Diagnosis	ICD-10-CM
D70.1	Agranulocytosis secondary to cancer chemotherapy	Diagnosis	ICD-10-CM
D70.2	Other drug-induced agranulocytosis	Diagnosis	ICD-10-CM
D72.0	Genetic anomalies of leukocytes	Diagnosis	ICD-10-CM
D89.810	Acute graft-versus-host disease	Diagnosis	ICD-10-CM
D89.811	Chronic graft-versus-host disease	Diagnosis	ICD-10-CM
D89.812	Acute on chronic graft-versus-host disease	Diagnosis	ICD-10-CM
D89.813	Graft-versus-host disease, unspecified	Diagnosis	ICD-10-CM
D89.89	Other specified disorders involving the immune mechanism, not elsewhere classified	Diagnosis	ICD-10-CM
D89.9	Disorder involving the immune mechanism, unspecified	Diagnosis	ICD-10-CM
E05.00	Thyrotoxicosis with diffuse goiter without thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.01	Thyrotoxicosis with diffuse goiter with thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.10	Thyrotoxicosis with toxic single thyroid nodule without thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.11	Thyrotoxicosis with toxic single thyroid nodule with thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.20	Thyrotoxicosis with toxic multinodular goiter without thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.21	Thyrotoxicosis with toxic multinodular goiter with thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.80	Other thyrotoxicosis without thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.81	Other thyrotoxicosis with thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.90	Thyrotoxicosis, unspecified without thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E05.91	Thyrotoxicosis, unspecified with thyrotoxic crisis or storm	Diagnosis	ICD-10-CM
E06.0	Acute thyroiditis	Diagnosis	ICD-10-CM
E06.1	Subacute thyroiditis	Diagnosis	ICD-10-CM
E06.2	Chronic thyroiditis with transient thyrotoxicosis	Diagnosis	ICD-10-CM
E06.3	Autoimmune thyroiditis	Diagnosis	ICD-10-CM
E06.4	Drug-induced thyroiditis	Diagnosis	ICD-10-CM
E06.5	Other chronic thyroiditis	Diagnosis	ICD-10-CM
E06.9	Thyroiditis, unspecified	Diagnosis	ICD-10-CM
E27.1	Primary adrenocortical insufficiency	Diagnosis	ICD-10-CM
E27.2	Addisonian crisis	Diagnosis	ICD-10-CM
G35	Multiple sclerosis	Diagnosis	ICD-10-CM
G70.00	Myasthenia gravis without (acute) exacerbation	Diagnosis	ICD-10-CM
G70.01	Myasthenia gravis with (acute) exacerbation	Diagnosis	ICD-10-CM
G70.80	Lambert-Eaton syndrome, unspecified	Diagnosis	ICD-10-CM
G70.81	Lambert-Eaton syndrome in disease classified elsewhere	Diagnosis	ICD-10-CM
G72.41	Inclusion body myositis [IBM]	Diagnosis	ICD-10-CM
G72.49	Other inflammatory and immune myopathies, not elsewhere classified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I73.1	Thromboangiitis obliterans [Buerger's disease]	Diagnosis	ICD-10-CM
I77.6	Arteritis, unspecified	Diagnosis	ICD-10-CM
I85.00	Esophageal varices without bleeding	Diagnosis	ICD-10-CM
I85.01	Esophageal varices with bleeding	Diagnosis	ICD-10-CM
I85.10	Secondary esophageal varices without bleeding	Diagnosis	ICD-10-CM
I85.11	Secondary esophageal varices with bleeding	Diagnosis	ICD-10-CM
K72.10	Chronic hepatic failure without coma	Diagnosis	ICD-10-CM
K72.11	Chronic hepatic failure with coma	Diagnosis	ICD-10-CM
K72.90	Hepatic failure, unspecified without coma	Diagnosis	ICD-10-CM
K72.91	Hepatic failure, unspecified with coma	Diagnosis	ICD-10-CM
K74.3	Primary biliary cirrhosis	Diagnosis	ICD-10-CM
K76.3	Infarction of liver	Diagnosis	ICD-10-CM
K76.6	Portal hypertension	Diagnosis	ICD-10-CM
K76.81	Hepatopulmonary syndrome	Diagnosis	ICD-10-CM
K91.2	Postsurgical malabsorption, not elsewhere classified	Diagnosis	ICD-10-CM
L10.0	Pemphigus vulgaris	Diagnosis	ICD-10-CM
L10.1	Pemphigus vegetans	Diagnosis	ICD-10-CM
L10.2	Pemphigus foliaceus	Diagnosis	ICD-10-CM
L10.3	Brazilian pemphigus [fogo selvagem]	Diagnosis	ICD-10-CM
L10.4	Pemphigus erythematosus	Diagnosis	ICD-10-CM
L10.81	Paraneoplastic pemphigus	Diagnosis	ICD-10-CM
L10.89	Other pemphigus	Diagnosis	ICD-10-CM
L10.9	Pemphigus, unspecified	Diagnosis	ICD-10-CM
L12.0	Bullous pemphigoid	Diagnosis	ICD-10-CM
L12.1	Cicatricial pemphigoid	Diagnosis	ICD-10-CM
L12.2	Chronic bullous disease of childhood	Diagnosis	ICD-10-CM
L12.8	Other pemphigoid	Diagnosis	ICD-10-CM
L12.9	Pemphigoid, unspecified	Diagnosis	ICD-10-CM
L13.0	Dermatitis herpetiformis	Diagnosis	ICD-10-CM
L13.8	Other specified bullous disorders	Diagnosis	ICD-10-CM
L13.9	Bullous disorder, unspecified	Diagnosis	ICD-10-CM
L40.0	Psoriasis vulgaris	Diagnosis	ICD-10-CM
L40.1	Generalized pustular psoriasis	Diagnosis	ICD-10-CM
L40.2	Acrodermatitis continua	Diagnosis	ICD-10-CM
L40.3	Pustulosis palmaris et plantaris	Diagnosis	ICD-10-CM
L40.4	Guttate psoriasis	Diagnosis	ICD-10-CM
L40.50	Arthropathic psoriasis, unspecified	Diagnosis	ICD-10-CM
L40.51	Distal interphalangeal psoriatic arthropathy	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
L40.52	Psoriatic arthritis mutilans	Diagnosis	ICD-10-CM
L40.53	Psoriatic spondylitis	Diagnosis	ICD-10-CM
L40.54	Psoriatic juvenile arthropathy	Diagnosis	ICD-10-CM
L40.59	Other psoriatic arthropathy	Diagnosis	ICD-10-CM
L40.8	Other psoriasis	Diagnosis	ICD-10-CM
L40.9	Psoriasis, unspecified	Diagnosis	ICD-10-CM
M30.8	Other conditions related to polyarteritis nodosa	Diagnosis	ICD-10-CM
M31.0	Hypersensitivity angiitis	Diagnosis	ICD-10-CM
M31.1	Thrombotic microangiopathy	Diagnosis	ICD-10-CM
M31.2	Lethal midline granuloma	Diagnosis	ICD-10-CM
M31.30	Wegener's granulomatosis without renal involvement	Diagnosis	ICD-10-CM
M31.31	Wegener's granulomatosis with renal involvement	Diagnosis	ICD-10-CM
M31.4	Aortic arch syndrome [Takayasu]	Diagnosis	ICD-10-CM
M31.5	Giant cell arteritis with polymyalgia rheumatica	Diagnosis	ICD-10-CM
M31.6	Other giant cell arteritis	Diagnosis	ICD-10-CM
M31.7	Microscopic polyangiitis	Diagnosis	ICD-10-CM
M31.8	Other specified necrotizing vasculopathies	Diagnosis	ICD-10-CM
M31.9	Necrotizing vasculopathy, unspecified	Diagnosis	ICD-10-CM
M35.00	Sjogren syndrome, unspecified	Diagnosis	ICD-10-CM
M35.01	Sjogren syndrome with keratoconjunctivitis	Diagnosis	ICD-10-CM
M35.02	Sjogren syndrome with lung involvement	Diagnosis	ICD-10-CM
M35.03	Sjogren syndrome with myopathy	Diagnosis	ICD-10-CM
M35.04	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
M35.09	Sjogren syndrome with other organ involvement	Diagnosis	ICD-10-CM
M35.1	Other overlap syndromes	Diagnosis	ICD-10-CM
M35.2	Behcet's disease	Diagnosis	ICD-10-CM
M35.3	Polymyalgia rheumatica	Diagnosis	ICD-10-CM
M35.4	Diffuse (eosinophilic) fasciitis	Diagnosis	ICD-10-CM
M35.5	Multifocal fibrosclerosis	Diagnosis	ICD-10-CM
M35.6	Relapsing panniculitis [Weber-Christian]	Diagnosis	ICD-10-CM
M35.8	Other specified systemic involvement of connective tissue	Diagnosis	ICD-10-CM
M35.9	Systemic involvement of connective tissue, unspecified	Diagnosis	ICD-10-CM
N00.0	Acute nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N00.1	Acute nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N00.2	Acute nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N00.3	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N00.6	Acute nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N00.8	Acute nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N00.9	Acute nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM

Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS), and National Drug Code (NDC) Used to Define Covariates in this Request

Code	Description	Code Category	Code Type
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N17.1	Acute kidney failure with acute cortical necrosis	Diagnosis	ICD-10-CM
N17.2	Acute kidney failure with medullary necrosis	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
R90.82	White matter disease, unspecified	Diagnosis	ICD-10-CM
T45.1X1A	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T45.1X1D	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T45.1X1S	Poisoning by antineoplastic and immunosuppressive drugs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T45.1X2A	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T45.1X2D	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T45.1X2S	Poisoning by antineoplastic and immunosuppressive drugs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T45.1X3A	Poisoning by antineoplastic and immunosuppressive drugs, assault, initial encounter	Diagnosis	ICD-10-CM
T45.1X3D	Poisoning by antineoplastic and immunosuppressive drugs, assault, subsequent encounter	Diagnosis	ICD-10-CM
T45.1X3S	Poisoning by antineoplastic and immunosuppressive drugs, assault, sequela	Diagnosis	ICD-10-CM
T45.1X4A	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T45.1X4D	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T45.1X4S	Poisoning by antineoplastic and immunosuppressive drugs, undetermined, sequela	Diagnosis	ICD-10-CM
T45.1X5A	Adverse effect of antineoplastic and immunosuppressive drugs, initial encounter	Diagnosis	ICD-10-CM
T45.1X5D	Adverse effect of antineoplastic and immunosuppressive drugs, subsequent encounter	Diagnosis	ICD-10-CM
T45.1X5S	Adverse effect of antineoplastic and immunosuppressive drugs, sequela	Diagnosis	ICD-10-CM

Appendix G. Specifications for Type 1 Request: cder_mpl1p_wp081

The Center for Drug Evaluation and Research has requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool (version 12.0.0) to estimate rates of monoclonal antibody utilization among authorized and unauthorized users in the Rapid Covid Sentinel Distributed Database (SDD).

Query period: 12/22/2021 - Most Recent Available Data
Pre-index enrollment requirement: 183
Post-index enrollment requirement: 0
Enrollment gap: 45
Age Groups: <12 years, 12-17, 18-24, 25-34, 35-44, 45-49, 50-64, 65-74, 75-84, 85+
Censor output categorization: n/a
Distribution of index-defining codes: N
Envelope macro: Reclassify if encounter occurs during IP stay
Freeze data: N

Exposure/Event										Inclusion/Exclusion Criteria								
Scenario	Coverage Requirement	Index Exposure/Event	Cohort definition	Washout period	Incident w/ respect to:	Exclude evidence of days supply if exposure washout includes dispensings	Care setting	Principal diagnosis position	Forced supply to attach to dispensings	Censor enrollment at evidence of	Inclusion / Exclusion	Criteria	Care setting	Principal diagnosis position	Evaluation period start	Evaluation period end	Number of instances the criteria should be found in evaluation period	Forced supply to attach to dispensings
1	Medical and Drug	COVID-19 Diagnosis	First valid index date during query period	0	n/a	n/a	AV/OA /ED	n/a	n/a	*Death; *Query End Date	Exclusion	severe renal or several hepatic impairments	Any	NA	-183	-1	1	NA
2	Medical and Drug	Paxlovid (Nirmatrelvir + ritonavir)	First valid index date during query period	0	n/a	n/a	Any	n/a	n/a	*Death; *Query End Date								

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in evaluation period	Look for evidence of an interval?	Complex Covariate?
Age at Index							
1	>=65 years	N/A	0	0	1	No	Yes
2	>=50 years	N/A	0	0	1	No	Yes
High-Risk Conditions							
3	Treatment Independent High Risk Comorbidities ¹	Any	-183	-1	1	No	No
4	Chemotherapy	Any	-183	-1	1	No	No
5	Immunosuppressant Treatment	Any	-183	-1	1	No	No
6	Steroid Diagnosis/Procedure or Corticosteroid Dispensing	Any	-183	-1	1	No	No
7	Solid Malignancies	Any	-183	-1	1	No	No
8	Transplant (solid organ, bone marrow, or stem cell)	Any	-183	-1	1	No	No
9	Rheumatological/Inflammatory Conditions	Any	-183	-1	1	No	No
10	Treatment-Dependent Immune Deficiencies	Any	-183	-1	1	No	No
11	Treatment-Dependent Immune Deficiencies and Chemotherapy	N/A	N/A	N/A	N/A	N/A	Yes
12	Treatment-Dependent Immune Deficiencies and Immunosuppressant Treatment	N/A	N/A	N/A	N/A	N/A	Yes
13	Solid Malignancies and Chemotherapy	N/A	N/A	N/A	N/A	N/A	Yes
14	Solid Malignancies and Immunosuppressant Treatment	N/A	N/A	N/A	N/A	N/A	Yes
15	Transplant and Chemotherapy	N/A	N/A	N/A	N/A	N/A	Yes
16	Transplant and Immunosuppressant Treatment	N/A	N/A	N/A	N/A	N/A	Yes
17	Rheumatological/Inflammatory Conditions and Chemotherapy	N/A	N/A	N/A	N/A	N/A	Yes
18	Rheumatological/Inflammatory Conditions and Immunosuppressant Treatment	N/A	N/A	N/A	N/A	N/A	Yes
19	Rheumatological/Inflammatory Conditions and Steroid DX/PX or a corticosteroid RX	N/A	N/A	N/A	N/A	N/A	Yes
20	Any High Risk Comorbidity	N/A	N/A	N/A	N/A	N/A	Yes
21	>=65 Years Old at Index or High-risk Comorbidity	N/A	N/A	N/A	N/A	N/A	Yes
22	>=50 Years Old at Index or High-risk Comorbidity	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant ² Use of Drugs Contraindicated for use with Nirmatrelvir/Ritonavir							
23	Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	Any	0	0	1	Yes	No
24	Alfuzosin	Any	0	0	1	Yes	No
25	Amiodarone	Any	0	0	1	Yes	No
26	Apalutamide	Any	0	0	1	Yes	No
27	Carbamazepine	Any	0	0	1	Yes	No
28	Colchicine	Any	0	0	1	Yes	No
29	Dihydroergotamine	Any	0	0	1	Yes	No
30	Dronedarone	Any	0	0	1	Yes	No
31	Eletriptan	Any	0	0	1	Yes	No

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
32	Eplerenone	Any	0	0	1	Yes	No
33	Ergotamine	Any	0	0	1	Yes	No
34	Finerenone	Any	0	0	1	Yes	No
35	Flecainide	Any	0	0	1	Yes	No
36	Flibanserin	Any	0	0	1	Yes	No
37	Ivabradine	Any	0	0	1	Yes	No
38	Lomitapide	Any	0	0	1	Yes	No
39	Lovastatin	Any	0	0	1	Yes	No
40	Lumacaftor/Ivacaftor	Any	0	0	1	Yes	No
41	Lurasidone	Any	0	0	1	Yes	No
42	Methylergonovine	Any	0	0	1	Yes	No
43	Midazolam (Oral)	Any	0	0	1	Yes	No
44	Naloxegol	Any	0	0	1	Yes	No
45	Phenobarbital	Any	0	0	1	Yes	No
46	Phenytoin	Any	0	0	1	Yes	No
47	Pimozide	Any	0	0	1	Yes	No
48	Primidone	Any	0	0	1	Yes	No
49	Propafenone	Any	0	0	1	Yes	No
50	Quinidine	Any	0	0	1	Yes	No
51	Ranolazine	Any	0	0	1	Yes	No
52	Rifampin	Any	0	0	1	Yes	No
53	Sildenafil (Pah)	Any	0	0	1	Yes	No
54	Silodosin	Any	0	0	1	Yes	No
55	Simvastatin	Any	0	0	1	Yes	No
56	St. John'S Wort	Any	0	0	1	Yes	No
57	Tolvaptan	Any	0	0	1	Yes	No
58	Triazolam	Any	0	0	1	Yes	No
59	Ubrogepant	Any	0	0	1	Yes	No
60	Voclosporin	Any	0	0	1	Yes	No
Concomitant ² Use of Drugs to Avoid with Nirmatrelvir/Ritonavir among high risk or patients >=65							
61	Any Drugs to be avoided with Nirmatrelvir/Ritonavir	Any	0	0	1	Yes	No
62	Aliskiren	Any	0	0	1	Yes	No
63	Atorvastatin	Any	0	0	1	Yes	No
64	Avanafil	Any	0	0	1	Yes	No

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
65	Bosentan	Any	0	0	1	Yes	No
66	Clopidogrel	Any	0	0	1	Yes	No
67	Encorafenib	Any	0	0	1	Yes	No
68	Everolimus	Any	0	0	1	Yes	No
69	Glecaprevir/Pibrentasvir	Any	0	0	1	Yes	No
70	Ibrutinib	Any	0	0	1	Yes	No
71	Ivosidenib	Any	0	0	1	Yes	No
72	Neratinib	Any	0	0	1	Yes	No
73	Rifapentine	Any	0	0	1	Yes	No
74	Rimegepant	Any	0	0	1	Yes	No
75	Rivaroxaban	Any	0	0	1	Yes	No
76	Rosuvastatin	Any	0	0	1	Yes	No
77	Salmeterol	Any	0	0	1	Yes	No
78	Sirolimus	Any	0	0	1	Yes	No
79	Suvorexant	Any	0	0	1	Yes	No
80	Tadalafil (Adcirca®)	Any	0	0	1	Yes	No
81	Tamsulosin	Any	0	0	1	Yes	No
82	Ticagrelor	Any	0	0	1	Yes	No
83	Venetoclax	Any	0	0	1	Yes	No
84	Vorapaxar	Any	0	0	1	Yes	No
85	Voriconazole	Any	0	0	1	Yes	No
Concomitant ² Use of Other Drug-Drug Interactor with Nirmatrelvir/Ritonavir among high risk or patients >=65							
86	Any Other Drug-Drug Interactor	Any	0	0	1	Yes	No
87	Abemaciclib	Any	0	0	1	Yes	No
88	Amlodipine	Any	0	0	1	Yes	No
89	Apixaban	Any	0	0	1	Yes	No
90	Aripiprazole	Any	0	0	1	Yes	No
91	Atazanavir	Any	0	0	1	Yes	No
92	Bedaquiline	Any	0	0	1	Yes	No
93	Betamethasone	Any	0	0	1	Yes	No
94	Bictegravir/ Emtricitabine/ Tenofovir	Any	0	0	1	Yes	No
95	Brexiprazole	Any	0	0	1	Yes	No
96	Budesonide	Any	0	0	1	Yes	No
97	Bupropion	Any	0	0	1	Yes	No

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
98	Buspirone	Any	0	0	1	Yes	No
99	Cariprazine	Any	0	0	1	Yes	No
100	Ceritinib	Any	0	0	1	Yes	No
101	Ciclesonide	Any	0	0	1	Yes	No
102	Cilostazol	Any	0	0	1	Yes	No
103	Clarithromycin	Any	0	0	1	Yes	No
104	Clonazepam	Any	0	0	1	Yes	No
105	Clorazepate	Any	0	0	1	Yes	No
106	Clozapine	Any	0	0	1	Yes	No
107	Cyclosporine	Any	0	0	1	Yes	No
108	Dabigatran	Any	0	0	1	Yes	No
109	Darifenacin	Any	0	0	1	Yes	No
110	Darunavir	Any	0	0	1	Yes	No
111	Dasatinib	Any	0	0	1	Yes	No
112	Dexamethasone	Any	0	0	1	Yes	No
113	Diazepam	Any	0	0	1	Yes	No
114	Digoxin	Any	0	0	1	Yes	No
115	Diltiazem	Any	0	0	1	Yes	No
116	Disopyramide	Any	0	0	1	Yes	No
117	Efavirenz	Any	0	0	1	Yes	No
118	Elbasvir/Grazoprevir	Any	0	0	1	Yes	No
119	Elexacaftor/Tezacaftor/Ivacaftor	Any	0	0	1	Yes	No
120	Erythromycin	Any	0	0	1	Yes	No
121	Estazolam	Any	0	0	1	Yes	No
122	Ethinyl Estradiol	Any	0	0	1	Yes	No
123	Felodipine	Any	0	0	1	Yes	No
124	Fentanyl	Any	0	0	1	Yes	No
125	Flurazepam	Any	0	0	1	Yes	No
126	Fluticasone	Any	0	0	1	Yes	No
127	Hydrocodone	Any	0	0	1	Yes	No
128	Iloperidone	Any	0	0	1	Yes	No
129	Isavuconazonium Sulfate	Any	0	0	1	Yes	No
130	Itraconazole	Any	0	0	1	Yes	No
131	Ivacaftor	Any	0	0	1	Yes	No

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
132	Ketoconazole	Any	0	0	1	Yes	No
133	Lidocaine (Systemic)	Any	0	0	1	Yes	No
134	Lumateperone	Any	0	0	1	Yes	No
135	Maraviroc	Any	0	0	1	Yes	No
136	Meperidine	Any	0	0	1	Yes	No
137	Methadone	Any	0	0	1	Yes	No
138	Methylprednisolone	Any	0	0	1	Yes	No
139	Midazolam (Administered Parenterally)	Any	0	0	1	Yes	No
140	Mometasone	Any	0	0	1	Yes	No
141	Nevirapine	Any	0	0	1	Yes	No
142	Nicardipine	Any	0	0	1	Yes	No
143	Nifedipine	Any	0	0	1	Yes	No
144	Nilotinib	Any	0	0	1	Yes	No
145	Ombitasvir/Paritaprevir /Ritonavir/Dasabuvir	Any	0	0	1	Yes	No
146	Oxycodone	Any	0	0	1	Yes	No
147	Pimavanserin	Any	0	0	1	Yes	No
148	Quetiapine	Any	0	0	1	Yes	No
149	Rifabutin	Any	0	0	1	Yes	No
150	Riociguat	Any	0	0	1	Yes	No
151	Saxagliptin	Any	0	0	1	Yes	No
152	Sildenafil	Any	0	0	1	Yes	No
153	Sofosbuvir/Velpatasvir/ Voxilaprevir	Any	0	0	1	Yes	No
154	Tacrolimus	Any	0	0	1	Yes	No
155	Tadalafil	Any	0	0	1	Yes	No
156	Tezacaftor/Ivacaftor	Any	0	0	1	Yes	No
157	Tipranavir	Any	0	0	1	Yes	No
158	Tofacitinib	Any	0	0	1	Yes	No
159	Trazodone	Any	0	0	1	Yes	No
160	Triamcinolone	Any	0	0	1	Yes	No
161	Upadacitinib	Any	0	0	1	Yes	No
162	Vardenafil	Any	0	0	1	Yes	No
462	Verapamil	Any	0	0	1	Yes	No
163	Vinblastine	Any	0	0	1	Yes	No
164	Vincristine	Any	0	0	1	Yes	No

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
165	Warfarin	Any	0	0	1	Yes	No
166	Zidovudine	Any	0	0	1	Yes	No
167	Zolpidem	Any	0	0	1	Yes	No
Concomitant Use of Drugs Contraindicated for use with Nirmatrelvir/Ritonavir Among Patients >=65 Years or with a High-Risk Comorbidity							
168	Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	N/A	N/A	N/A	N/A	N/A	Yes
169	Alfuzosin	N/A	N/A	N/A	N/A	N/A	Yes
170	Amiodarone	N/A	N/A	N/A	N/A	N/A	Yes
171	Apalutamide	N/A	N/A	N/A	N/A	N/A	Yes
172	Carbamazepine	N/A	N/A	N/A	N/A	N/A	Yes
173	Colchicine	N/A	N/A	N/A	N/A	N/A	Yes
174	Dihydroergotamine	N/A	N/A	N/A	N/A	N/A	Yes
175	Dronedarone	N/A	N/A	N/A	N/A	N/A	Yes
176	Eletriptan	N/A	N/A	N/A	N/A	N/A	Yes
177	Eplerenone	N/A	N/A	N/A	N/A	N/A	Yes
178	Ergotamine	N/A	N/A	N/A	N/A	N/A	Yes
179	Finerenone	N/A	N/A	N/A	N/A	N/A	Yes
180	Flecainide	N/A	N/A	N/A	N/A	N/A	Yes
181	Flibanserin	N/A	N/A	N/A	N/A	N/A	Yes
182	Ivabradine	N/A	N/A	N/A	N/A	N/A	Yes
183	Lomitapide	N/A	N/A	N/A	N/A	N/A	Yes
184	Lovastatin	N/A	N/A	N/A	N/A	N/A	Yes
185	Lumacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
186	Lurasidone	N/A	N/A	N/A	N/A	N/A	Yes
187	Methylergonovine	N/A	N/A	N/A	N/A	N/A	Yes
188	Midazolam (Oral)	N/A	N/A	N/A	N/A	N/A	Yes
189	Naloxegol	N/A	N/A	N/A	N/A	N/A	Yes
190	Phenobarbital	N/A	N/A	N/A	N/A	N/A	Yes
191	Phenytoin	N/A	N/A	N/A	N/A	N/A	Yes
192	Pimozide	N/A	N/A	N/A	N/A	N/A	Yes
193	Primidone	N/A	N/A	N/A	N/A	N/A	Yes
194	Propafenone	N/A	N/A	N/A	N/A	N/A	Yes
195	Quinidine	N/A	N/A	N/A	N/A	N/A	Yes
196	Ranolazine	N/A	N/A	N/A	N/A	N/A	Yes
197	Rifampin	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
198	Sildenafil (Pah)	N/A	N/A	N/A	N/A	N/A	Yes
199	Sildenafil	N/A	N/A	N/A	N/A	N/A	Yes
200	Simvastatin	N/A	N/A	N/A	N/A	N/A	Yes
201	St. John's Wort	N/A	N/A	N/A	N/A	N/A	Yes
202	Tolvaptan	N/A	N/A	N/A	N/A	N/A	Yes
203	Triazolam	N/A	N/A	N/A	N/A	N/A	Yes
204	Ubrogepant	N/A	N/A	N/A	N/A	N/A	Yes
205	Voclosporin	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant Use of Drugs to be Avoided with Nirmatrelvir/Ritonavir Among Patients >=65 Years or with a High-Risk Comorbidity							
206	Any Drugs to be avoided with Nirmatrelvir/Ritonavir	N/A	N/A	N/A	N/A	N/A	Yes
207	Aliskiren	N/A	N/A	N/A	N/A	N/A	Yes
208	Atorvastatin	N/A	N/A	N/A	N/A	N/A	Yes
209	Avanafil	N/A	N/A	N/A	N/A	N/A	Yes
210	Bosentan	N/A	N/A	N/A	N/A	N/A	Yes
211	Clopidogrel	N/A	N/A	N/A	N/A	N/A	Yes
212	Encorafenib	N/A	N/A	N/A	N/A	N/A	Yes
213	Everolimus	N/A	N/A	N/A	N/A	N/A	Yes
214	Glecaprevir/Pibrentasvir	N/A	N/A	N/A	N/A	N/A	Yes
215	Ibrutinib	N/A	N/A	N/A	N/A	N/A	Yes
216	Ivosidenib	N/A	N/A	N/A	N/A	N/A	Yes
217	Neratinib	N/A	N/A	N/A	N/A	N/A	Yes
218	Rifapentine	N/A	N/A	N/A	N/A	N/A	Yes
219	Rimegepant	N/A	N/A	N/A	N/A	N/A	Yes
220	Rivaroxaban	N/A	N/A	N/A	N/A	N/A	Yes
221	Rosuvastatin	N/A	N/A	N/A	N/A	N/A	Yes
222	Salmeterol	N/A	N/A	N/A	N/A	N/A	Yes
223	Sirolimus	N/A	N/A	N/A	N/A	N/A	Yes
224	Suvorexant	N/A	N/A	N/A	N/A	N/A	Yes
225	Tadalafil (Adcirca®)	N/A	N/A	N/A	N/A	N/A	Yes
226	Tamsulosin	N/A	N/A	N/A	N/A	N/A	Yes
227	Ticagrelor	N/A	N/A	N/A	N/A	N/A	Yes
228	Venetoclax	N/A	N/A	N/A	N/A	N/A	Yes
229	Vorapaxar	N/A	N/A	N/A	N/A	N/A	Yes
230	Voriconazole	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
Concomitant Use of Other Drug-Drug Interactors with Nirmatrelvir/Ritonavir Among Patients >=65 Years or with a High-Risk Comorbidity							
231	Any Other Drug-Drug Interactor	N/A	N/A	N/A	N/A	N/A	Yes
232	Abemaciclib	N/A	N/A	N/A	N/A	N/A	Yes
233	Amlodipine	N/A	N/A	N/A	N/A	N/A	Yes
234	Apixaban	N/A	N/A	N/A	N/A	N/A	Yes
235	Aripiprazole	N/A	N/A	N/A	N/A	N/A	Yes
236	Atazanavir	N/A	N/A	N/A	N/A	N/A	Yes
237	Bedaquiline	N/A	N/A	N/A	N/A	N/A	Yes
238	Betamethasone	N/A	N/A	N/A	N/A	N/A	Yes
239	Bictegravir/ Emtricitabine/ Tenofovir	N/A	N/A	N/A	N/A	N/A	Yes
240	Brexiprazole	N/A	N/A	N/A	N/A	N/A	Yes
241	Budesonide	N/A	N/A	N/A	N/A	N/A	Yes
242	Bupropion	N/A	N/A	N/A	N/A	N/A	Yes
243	Buspirone	N/A	N/A	N/A	N/A	N/A	Yes
244	Cariprazine	N/A	N/A	N/A	N/A	N/A	Yes
245	Ceritinib	N/A	N/A	N/A	N/A	N/A	Yes
246	Ciclesonide	N/A	N/A	N/A	N/A	N/A	Yes
247	Cilostazol	N/A	N/A	N/A	N/A	N/A	Yes
248	Clarithromycin	N/A	N/A	N/A	N/A	N/A	Yes
249	Clonazepam	N/A	N/A	N/A	N/A	N/A	Yes
250	Clorazepate	N/A	N/A	N/A	N/A	N/A	Yes
251	Clozapine	N/A	N/A	N/A	N/A	N/A	Yes
252	Cyclosporine	N/A	N/A	N/A	N/A	N/A	Yes
253	Dabigatran	N/A	N/A	N/A	N/A	N/A	Yes
254	Darifenacin	N/A	N/A	N/A	N/A	N/A	Yes
255	Darunavir	N/A	N/A	N/A	N/A	N/A	Yes
256	Dasatinib	N/A	N/A	N/A	N/A	N/A	Yes
257	Dexamethasone	N/A	N/A	N/A	N/A	N/A	Yes
258	Diazepam	N/A	N/A	N/A	N/A	N/A	Yes
259	Digoxin	N/A	N/A	N/A	N/A	N/A	Yes
260	Diltiazem	N/A	N/A	N/A	N/A	N/A	Yes
261	Disopyramide	N/A	N/A	N/A	N/A	N/A	Yes
262	Efavirenz	N/A	N/A	N/A	N/A	N/A	Yes
263	Elbasvir/Grazoprevir	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
264	Elexacaftor/Tezacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
265	Erythromycin	N/A	N/A	N/A	N/A	N/A	Yes
266	Estazolam	N/A	N/A	N/A	N/A	N/A	Yes
267	Ethinyl Estradiol	N/A	N/A	N/A	N/A	N/A	Yes
268	Felodipine	N/A	N/A	N/A	N/A	N/A	Yes
269	Fentanyl	N/A	N/A	N/A	N/A	N/A	Yes
270	Flurazepam	N/A	N/A	N/A	N/A	N/A	Yes
271	Fluticasone	N/A	N/A	N/A	N/A	N/A	Yes
272	Hydrocodone	N/A	N/A	N/A	N/A	N/A	Yes
273	Iloperidone	N/A	N/A	N/A	N/A	N/A	Yes
274	Isavuconazonium Sulfate	N/A	N/A	N/A	N/A	N/A	Yes
275	Itraconazole	N/A	N/A	N/A	N/A	N/A	Yes
276	Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
277	Ketoconazole	N/A	N/A	N/A	N/A	N/A	Yes
278	Lidocaine (Systemic)	N/A	N/A	N/A	N/A	N/A	Yes
279	Lumateperone	N/A	N/A	N/A	N/A	N/A	Yes
280	Maraviroc	N/A	N/A	N/A	N/A	N/A	Yes
281	Meperidine	N/A	N/A	N/A	N/A	N/A	Yes
282	Methadone	N/A	N/A	N/A	N/A	N/A	Yes
283	Methylprednisolone	N/A	N/A	N/A	N/A	N/A	Yes
284	Midazolam (Administered Parenterally)	N/A	N/A	N/A	N/A	N/A	Yes
285	Mometasone	N/A	N/A	N/A	N/A	N/A	Yes
286	Nevirapine	N/A	N/A	N/A	N/A	N/A	Yes
287	Nicardipine	N/A	N/A	N/A	N/A	N/A	Yes
288	Nifedipine	N/A	N/A	N/A	N/A	N/A	Yes
289	Nilotinib	N/A	N/A	N/A	N/A	N/A	Yes
290	Ombitasvir/Paritaprevir /Ritonavir/Dasabuvir	N/A	N/A	N/A	N/A	N/A	Yes
291	Oxycodone	N/A	N/A	N/A	N/A	N/A	Yes
292	Pimavanserin	N/A	N/A	N/A	N/A	N/A	Yes
293	Quetiapine	N/A	N/A	N/A	N/A	N/A	Yes
294	Rifabutin	N/A	N/A	N/A	N/A	N/A	Yes
295	Riociguat	N/A	N/A	N/A	N/A	N/A	Yes
296	Saxagliptin	N/A	N/A	N/A	N/A	N/A	Yes
297	Sildenafil	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
298	Sofosbuvir/Velpatasvir/ Voxilaprevir	N/A	N/A	N/A	N/A	N/A	Yes
299	Tacrolimus	N/A	N/A	N/A	N/A	N/A	Yes
300	Tadalafil	N/A	N/A	N/A	N/A	N/A	Yes
301	Tezacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
302	Tipranavir	N/A	N/A	N/A	N/A	N/A	Yes
303	Tofacitinib	N/A	N/A	N/A	N/A	N/A	Yes
304	Trazodone	N/A	N/A	N/A	N/A	N/A	Yes
305	Triamcinolone	N/A	N/A	N/A	N/A	N/A	Yes
306	Upadacitinib	N/A	N/A	N/A	N/A	N/A	Yes
307	Vardenafil	N/A	N/A	N/A	N/A	N/A	Yes
463	Verapamil	N/A	N/A	N/A	N/A	N/A	Yes
308	Vinblastine	N/A	N/A	N/A	N/A	N/A	Yes
309	Vincristine	N/A	N/A	N/A	N/A	N/A	Yes
310	Warfarin	N/A	N/A	N/A	N/A	N/A	Yes
311	Zidovudine	N/A	N/A	N/A	N/A	N/A	Yes
312	Zolpidem	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant Use of Drugs Contraindicated for use with Nirmatrelvir/Ritonavir Among Patients >=50 Years or with a High-Risk Comorbidity							
313	Any Drugs Contraindicated for use with Nirmatrelvir/Ritonavir	N/A	N/A	N/A	N/A	N/A	Yes
314	Alfuzosin	N/A	N/A	N/A	N/A	N/A	Yes
315	Amiodarone	N/A	N/A	N/A	N/A	N/A	Yes
316	Apalutamide	N/A	N/A	N/A	N/A	N/A	Yes
317	Carbamazepine	N/A	N/A	N/A	N/A	N/A	Yes
318	Colchicine	N/A	N/A	N/A	N/A	N/A	Yes
319	Dihydroergotamine	N/A	N/A	N/A	N/A	N/A	Yes
320	Dronedarone	N/A	N/A	N/A	N/A	N/A	Yes
321	Eletriptan	N/A	N/A	N/A	N/A	N/A	Yes
322	Eplerenone	N/A	N/A	N/A	N/A	N/A	Yes
323	Ergotamine	N/A	N/A	N/A	N/A	N/A	Yes
324	Finerenone	N/A	N/A	N/A	N/A	N/A	Yes
325	Flecainide	N/A	N/A	N/A	N/A	N/A	Yes
326	Flibanserin	N/A	N/A	N/A	N/A	N/A	Yes
327	Ivabradine	N/A	N/A	N/A	N/A	N/A	Yes
328	Lomitapide	N/A	N/A	N/A	N/A	N/A	Yes
329	Lovastatin	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
330	Lumacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
331	Lurasidone	N/A	N/A	N/A	N/A	N/A	Yes
332	Methylergonovine	N/A	N/A	N/A	N/A	N/A	Yes
333	Midazolam (Oral)	N/A	N/A	N/A	N/A	N/A	Yes
334	Naloxegol	N/A	N/A	N/A	N/A	N/A	Yes
335	Phenobarbital	N/A	N/A	N/A	N/A	N/A	Yes
336	Phenytoin	N/A	N/A	N/A	N/A	N/A	Yes
337	Pimozide	N/A	N/A	N/A	N/A	N/A	Yes
338	Primidone	N/A	N/A	N/A	N/A	N/A	Yes
339	Propafenone	N/A	N/A	N/A	N/A	N/A	Yes
340	Quinidine	N/A	N/A	N/A	N/A	N/A	Yes
341	Ranolazine	N/A	N/A	N/A	N/A	N/A	Yes
342	Rifampin	N/A	N/A	N/A	N/A	N/A	Yes
343	Sildenafil (Pah)	N/A	N/A	N/A	N/A	N/A	Yes
344	Silodosin	N/A	N/A	N/A	N/A	N/A	Yes
345	Simvastatin	N/A	N/A	N/A	N/A	N/A	Yes
346	St. John'S Wort	N/A	N/A	N/A	N/A	N/A	Yes
347	Tolvaptan	N/A	N/A	N/A	N/A	N/A	Yes
348	Triazolam	N/A	N/A	N/A	N/A	N/A	Yes
349	Ubrogepant	N/A	N/A	N/A	N/A	N/A	Yes
350	Voclosporin	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant Use of Drugs to be Avoided with Nirmatrelvir/Ritonavir Among Patients >=50 Years or with a High-Risk Comorbidity							
351	Any Drugs to be avoided with Nirmatrelvir/Ritonavir	N/A	N/A	N/A	N/A	N/A	Yes
352	Aliskiren	N/A	N/A	N/A	N/A	N/A	Yes
353	Atorvastatin	N/A	N/A	N/A	N/A	N/A	Yes
354	Avanafil	N/A	N/A	N/A	N/A	N/A	Yes
355	Bosentan	N/A	N/A	N/A	N/A	N/A	Yes
356	Clopidogrel	N/A	N/A	N/A	N/A	N/A	Yes
357	Encorafenib	N/A	N/A	N/A	N/A	N/A	Yes
358	Everolimus	N/A	N/A	N/A	N/A	N/A	Yes
359	Glecaprevir/Pibrentasvir	N/A	N/A	N/A	N/A	N/A	Yes
360	Ibrutinib	N/A	N/A	N/A	N/A	N/A	Yes
361	Ivosidenib	N/A	N/A	N/A	N/A	N/A	Yes
362	Neratinib	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
363	Rifapentine	N/A	N/A	N/A	N/A	N/A	Yes
364	Rimegepant	N/A	N/A	N/A	N/A	N/A	Yes
365	Rivaroxaban	N/A	N/A	N/A	N/A	N/A	Yes
366	Rosuvastatin	N/A	N/A	N/A	N/A	N/A	Yes
367	Salmeterol	N/A	N/A	N/A	N/A	N/A	Yes
368	Sirolimus	N/A	N/A	N/A	N/A	N/A	Yes
369	Suvorexant	N/A	N/A	N/A	N/A	N/A	Yes
370	Tadalafil (Adcirca®)	N/A	N/A	N/A	N/A	N/A	Yes
371	Tamsulosin	N/A	N/A	N/A	N/A	N/A	Yes
372	Ticagrelor	N/A	N/A	N/A	N/A	N/A	Yes
373	Venetoclax	N/A	N/A	N/A	N/A	N/A	Yes
374	Vorapaxar	N/A	N/A	N/A	N/A	N/A	Yes
375	Voriconazole	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant Use of Other Drug-Drug Interactors with Nirmatrelvir/Ritonavir Among Patients >=50 Years or with a High-Risk Comorbidity							
376	Any Other Drug-Drug Interactor	N/A	N/A	N/A	N/A	N/A	Yes
377	Abemaciclib	N/A	N/A	N/A	N/A	N/A	Yes
378	Amlodipine	N/A	N/A	N/A	N/A	N/A	Yes
379	Apixaban	N/A	N/A	N/A	N/A	N/A	Yes
380	Aripiprazole	N/A	N/A	N/A	N/A	N/A	Yes
381	Atazanavir	N/A	N/A	N/A	N/A	N/A	Yes
382	Bedaquiline	N/A	N/A	N/A	N/A	N/A	Yes
383	Betamethasone	N/A	N/A	N/A	N/A	N/A	Yes
384	Bictegravir/ Emtricitabine/ Tenofovir	N/A	N/A	N/A	N/A	N/A	Yes
385	Brexiprazole	N/A	N/A	N/A	N/A	N/A	Yes
386	Budesonide	N/A	N/A	N/A	N/A	N/A	Yes
387	Bupropion	N/A	N/A	N/A	N/A	N/A	Yes
388	Buspirone	N/A	N/A	N/A	N/A	N/A	Yes
389	Cariprazine	N/A	N/A	N/A	N/A	N/A	Yes
390	Ceritinib	N/A	N/A	N/A	N/A	N/A	Yes
391	Ciclesonide	N/A	N/A	N/A	N/A	N/A	Yes
392	Cilostazol	N/A	N/A	N/A	N/A	N/A	Yes
393	Clarithromycin	N/A	N/A	N/A	N/A	N/A	Yes
394	Clonazepam	N/A	N/A	N/A	N/A	N/A	Yes
395	Clorazepate	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
396	Clozapine	N/A	N/A	N/A	N/A	N/A	Yes
397	Cyclosporine	N/A	N/A	N/A	N/A	N/A	Yes
398	Dabigatran	N/A	N/A	N/A	N/A	N/A	Yes
399	Darifenacin	N/A	N/A	N/A	N/A	N/A	Yes
400	Darunavir	N/A	N/A	N/A	N/A	N/A	Yes
401	Dasatinib	N/A	N/A	N/A	N/A	N/A	Yes
402	Dexamethasone	N/A	N/A	N/A	N/A	N/A	Yes
403	Diazepam	N/A	N/A	N/A	N/A	N/A	Yes
404	Digoxin	N/A	N/A	N/A	N/A	N/A	Yes
405	Diltiazem	N/A	N/A	N/A	N/A	N/A	Yes
406	Disopyramide	N/A	N/A	N/A	N/A	N/A	Yes
407	Efavirenz	N/A	N/A	N/A	N/A	N/A	Yes
408	Elbasvir/Grazoprevir	N/A	N/A	N/A	N/A	N/A	Yes
409	Elexacaftor/Tezacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
410	Erythromycin	N/A	N/A	N/A	N/A	N/A	Yes
411	Estazolam	N/A	N/A	N/A	N/A	N/A	Yes
412	Ethinyl Estradiol	N/A	N/A	N/A	N/A	N/A	Yes
413	Felodipine	N/A	N/A	N/A	N/A	N/A	Yes
414	Fentanyl	N/A	N/A	N/A	N/A	N/A	Yes
415	Flurazepam	N/A	N/A	N/A	N/A	N/A	Yes
416	Fluticasone	N/A	N/A	N/A	N/A	N/A	Yes
417	Hydrocodone	N/A	N/A	N/A	N/A	N/A	Yes
418	Iloperidone	N/A	N/A	N/A	N/A	N/A	Yes
419	Isavuconazonium Sulfate	N/A	N/A	N/A	N/A	N/A	Yes
420	Itraconazole	N/A	N/A	N/A	N/A	N/A	Yes
421	Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
422	Ketoconazole	N/A	N/A	N/A	N/A	N/A	Yes
423	Lidocaine (Systemic)	N/A	N/A	N/A	N/A	N/A	Yes
424	Lumateperone	N/A	N/A	N/A	N/A	N/A	Yes
425	Maraviroc	N/A	N/A	N/A	N/A	N/A	Yes
426	Meperidine	N/A	N/A	N/A	N/A	N/A	Yes
427	Methadone	N/A	N/A	N/A	N/A	N/A	Yes
428	Methylprednisolone	N/A	N/A	N/A	N/A	N/A	Yes
429	Midazolam (Administered Parenterally)	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

Covarnum	Covariate	Care setting	Evaluation period start	Evaluation period end	Number of instances the covariate should be found in	Look for evidence of an interval?	Complex Covariate?
					evaluation period		
430	Mometasone	N/A	N/A	N/A	N/A	N/A	Yes
431	Nevirapine	N/A	N/A	N/A	N/A	N/A	Yes
432	Nicardipine	N/A	N/A	N/A	N/A	N/A	Yes
433	Nifedipine	N/A	N/A	N/A	N/A	N/A	Yes
434	Nilotinib	N/A	N/A	N/A	N/A	N/A	Yes
435	Ombitasvir/Paritaprevir /Ritonavir/Dasabuvir	N/A	N/A	N/A	N/A	N/A	Yes
436	Oxycodone	N/A	N/A	N/A	N/A	N/A	Yes
437	Pimavanserin	N/A	N/A	N/A	N/A	N/A	Yes
438	Quetiapine	N/A	N/A	N/A	N/A	N/A	Yes
439	Rifabutin	N/A	N/A	N/A	N/A	N/A	Yes
440	Riociguat	N/A	N/A	N/A	N/A	N/A	Yes
441	Saxagliptin	N/A	N/A	N/A	N/A	N/A	Yes
442	Sildenafil	N/A	N/A	N/A	N/A	N/A	Yes
443	Sofosbuvir/Velpatasvir/ Voxilaprevir	N/A	N/A	N/A	N/A	N/A	Yes
444	Tacrolimus	N/A	N/A	N/A	N/A	N/A	Yes
445	Tadalafil	N/A	N/A	N/A	N/A	N/A	Yes
446	Tezacaftor/Ivacaftor	N/A	N/A	N/A	N/A	N/A	Yes
447	Tipranavir	N/A	N/A	N/A	N/A	N/A	Yes
448	Tofacitinib	N/A	N/A	N/A	N/A	N/A	Yes
449	Trazodone	N/A	N/A	N/A	N/A	N/A	Yes
450	Triamcinolone	N/A	N/A	N/A	N/A	N/A	Yes
451	Upadacitinib	N/A	N/A	N/A	N/A	N/A	Yes
452	Vardenafil	N/A	N/A	N/A	N/A	N/A	Yes
464	Verapamil	N/A	N/A	N/A	N/A	N/A	Yes
454	Vinblastine	N/A	N/A	N/A	N/A	N/A	Yes
455	Vincristine	N/A	N/A	N/A	N/A	N/A	Yes
456	Warfarin	N/A	N/A	N/A	N/A	N/A	Yes
457	Zidovudine	N/A	N/A	N/A	N/A	N/A	Yes
458	Zolpidem	N/A	N/A	N/A	N/A	N/A	Yes
Concomitant Use of Any Drug that Interacts wtih Nirmatrelvir/Ritonavir							
459	Any Drug that Interacts wtih Nirmatrelvir/Ritonavir	N/A	N/A	N/A	N/A	N/A	Yes
460	Any Drug that Interacts wtih Nirmatrelvir/Ritonavir among Patients >=65 years or High-risk	N/A	N/A	N/A	N/A	N/A	Yes
461	Any Drug that Interacts wtih Nirmatrelvir/Ritonavir among Patients >=50 years or High-risk	N/A	N/A	N/A	N/A	N/A	Yes

Appendix H. Specifications Used to Define Baseline Characteristics in this Request

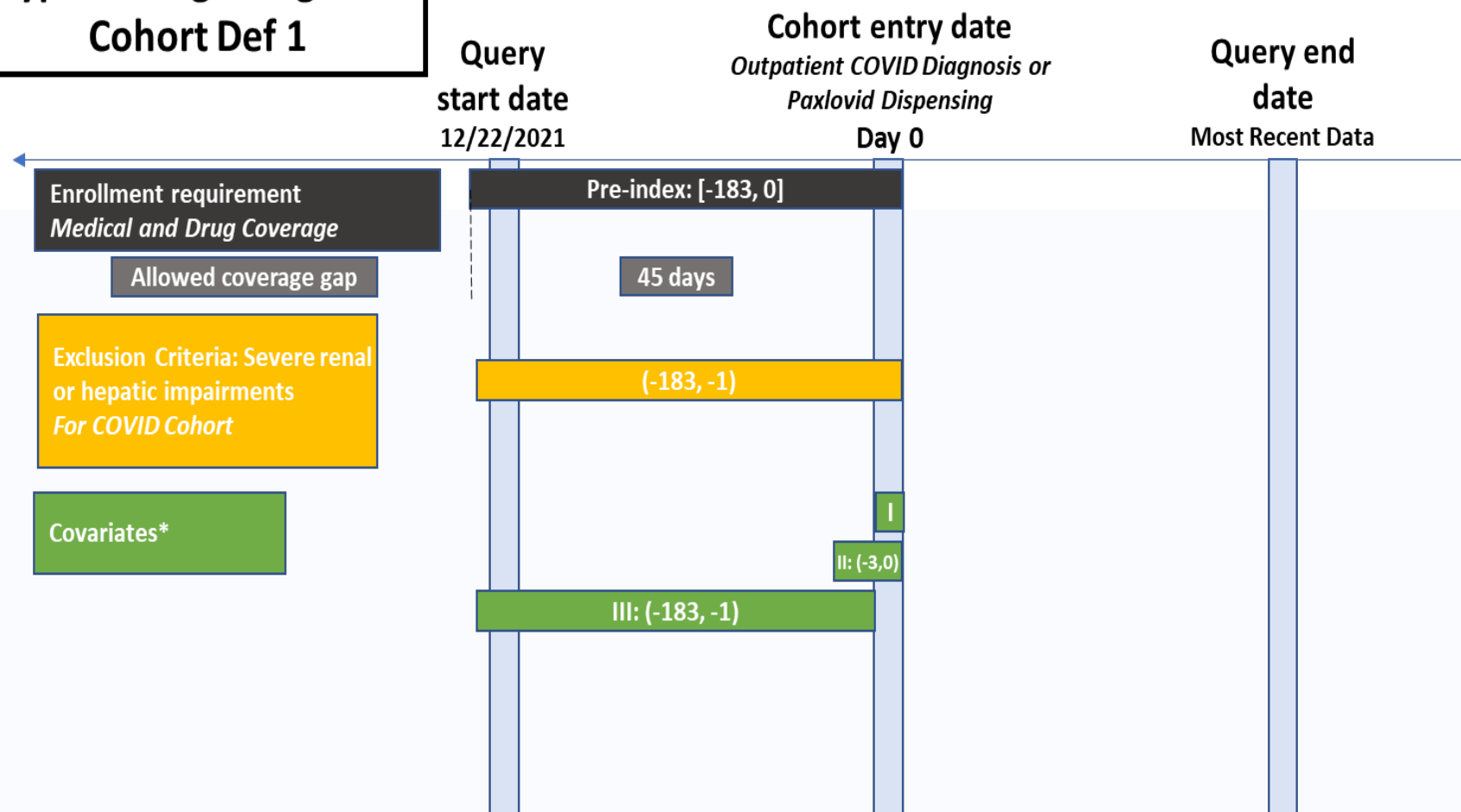
Covarnum	Covariate				Number of instances the covariate should	Look for	Complex
		Care setting	Evaluation period start	Evaluation period end	be found in evaluation period	evidence of an interval?	Covariate?

¹Treatment independent immune deficiencies are defined as the presence of: Other Chronic Respiratory Diseases ,Reactive Airway and Lung Diseases ,Asthma ,Cardiovascular and Other

²Concomitant use is defined as 1) Having a dispensing record with a days supply that overlap the index date, OR 2) Having a procedure record within 3 days prior to the index date

Appendix I. Design Diagrams Used to Define Cohorts in this Request

Type 1 design diagram: Cohort Def 1



*Covariates:

Window I: Age, year, race, sex, DDI drug dispensing

Window II: DDI drug procedure

Window III: High-risk comorbidities