

Disclaimer

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 for Request: cder_mpl1p_wp085 (Report 3 of 4)

Request ID: cder_mpl1p_wp085

Request Description: We assessed the use of attention-deficit/hyperactivity disorder (ADHD) medications or opioid analgesics within pre- and post-pandemic time periods among pre-specified age groups in the Sentinel Distributed Database (SDD). This is report three out of four, and specifically represents the pandemic query period: April 1, 2020 - March 31, 2022. Report one represents the overall query period: January 1, 2017 - March 31, 2023. Report two represents the pre-pandemic query period: April 1, 2018 - March 31, 2020. Report four represents the latest available data query period: April 1, 2022 - March 31, 2023.

Sentinel Routine Querying Module: Cohort Identification and Descriptive Analysis (CIDA) tool, QRP version 13.1.1

Data Source: We distributed this request to eight Sentinel Data Partners (DP) on May 10, 2024. The study period included data from January 1, 2017 – March 31, 2023. Please see Appendix A for a list of available dates for each Data Partner.

Study Design: Using the SDD, we separately identified the following cohorts of individuals five years of age and older who initiated ADHD stimulant drugs, ADHD non-stimulant medications, or Schedule II (C-II) opioid analgesics with a minimum day supply of seven based on age on the index date: 1) Five years and older; 2) 18 years and older; 3) Five-17 Years; 4) 18-25 Years; 5) 26-44 Years; 6) 45-64 Years; and 7) 65 years and older. In each of the age-based cohorts, we assessed the characteristics of patients at four different time periods: January 1, 2017 - March 31, 2023 (overall), April 1, 2018 - March 31, 2020 (pre-pandemic), April 1, 2020 - March 31, 2022 (pandemic), and April 1, 2022 - March 31, 2023 (latest available). We described demographics (as of index date) and clinical characteristics for each age-based drug class cohort. This was a Type 5 analysis in the Query Request Package (QRP) documentation.

Exposures of Interest: The exposures of interest were ADHD stimulants, ADHD non-stimulants, or Schedule II (C-II) opioid analgesics prescribed in an outpatient setting with a minimum seven-day supply, identified using National Drug Codes (NDCs). Please see Appendix C for a List of non-proprietary and proprietary names of medical products.

Stimulant ADHD medications comprised amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexamethylphenidate, and dexmethylphenidate.

Non-stimulant medications for ADHD comprised atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, and viloxazine.

Schedule II (C-II) opioid analgesics comprised benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, and single product codeine.

Cohort Eligibility Criteria: We required individuals to be enrolled in health plans with both medical and drug coverage for at least 365 days prior to the index exposure, during which gaps in coverage of up to 45 days were allowed and treated as continuous enrollment. The exposure washout window (i.e., the period with no dispensing of the exposure of interest) was defined as 365 days prior to the index date.

Episode Creation: We created exposure episodes based on the number of days of product supplied per dispensing in the outpatient pharmacy dispensing data. We bridged together episodes less than 30 days apart.

Overview for Request: cder_mpl1p_wp085 (Report 3 of 4)

Health Characteristics: We assessed the following characteristics on index date: age, sex, race, Hispanic origin, geography by Census Bureau (CB) region, and year. We assessed the following characteristics in the 365 days prior to and including the index date: ADHD; neurological and behavioral disorders associated with ADHD (narcolepsy, binge-eating disorder, conduct/adjustment, or related disorders); substance-related disorders and poisoning; use of other medications, including anxiolytics, antidepressants, and antipsychotics; and healthcare utilization. In addition, ADHD and neurological and behavioral disorders associated with ADHD were also assessed in the 30 days prior to and including the index date.

Active pharmacological ingredients of ADHD stimulant medications, ADHD non-stimulant medications, and schedule II (C-II) opioid analgesics dispensed during treatment episodes of exposure of interest were assessed in all available data following the index date. We also reported concomitant use of antidepressants, benzodiazepines, antipsychotics, and non-benzodiazepine anxiolytics, defined as a minimum of seven consecutive days of overlap between the days' supply of any of those drugs during any exposure episode. Also, for the exposures of interest, the analyses characterized dispensing patterns by examining cumulative exposure episode durations, first exposure episode durations, all exposure episode durations, and lengths of gaps between episodes.

National Drug Codes (NDC), 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes were used to define the clinical characteristics and treatments. Please see Appendix B for a list of States and U.S. Territories per CB Region. Please see Appendix D for a list of non-proprietary and proprietary names of medical products used to define baseline characteristics in this request. Please see Appendix E for a list of diagnosis and procedure codes used to define baseline characteristics in this request.

Please refer to Appendices F through K for the specifications of parameters used in this request, baseline characteristics used in this request, and a design diagram.

Disclaimer: Due to the large number of analyses, and to improve efficiency and reduce runtime at the data partners, we first created a frozen dataset. The frozen data included the complete claims history of individuals who had a qualifying dispensing of any stimulant, non-stimulant, or C-II opioid drug classes during the study period. As a result, the total counts in the frozen dataset represent only individuals with a qualifying dispensing of drugs of interest and do not reflect the entire population of individuals enrolled in the datasets. Because the attrition tables would not accurately represent the full volume of enrollees in the datasets, we did not include attrition tables in this report.

Limitations: Algorithms used to define exposures and inclusion criteria are imperfect; thus, misclassification is possible. Data should be interpreted with this limitation in mind.

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 Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5+ Years		
Patient Characteristics	Number	
Unique patients	501,357	
Healthcare Payor Status	Number	Percent
Commercial payor patients	440,853	87.9%
Medicare Members	60,504	12.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	32.7	15.3
Age	Number	Percent
5-12 years	70,173	14.0%
13-17 years	56,227	11.2%
18-25 years	96,977	19.3%
26-29 years	36,146	7.2%
30-39 years	90,523	18.1%
40-49 years	58,418	11.7%
50-64 years	48,943	9.8%
≥ 65 years	43,950	8.8%
Sex		
Female	271,299	54.1%
Male	230,058	45.9%
Race ¹		
American Indian or Alaska Native	580	0.1%
Asian	2,969	0.6%
Black or African American	6,085	1.2%
Multi-racial	9,729	1.9%
Native Hawaiian or Other Pacific Islander	166	0.0%
Unknown	366,866	73.2%
White	114,962	22.9%
Hispanic origin		
Yes	6,514	1.3%
No	81,641	16.3%
Unknown	413,202	82.4%
Year		
2020	154,570	30.8%
2021	266,970	53.2%
2022	79,817	15.9%
Census Bureau Region ²		
Invalid	5,304	1.1%
Midwest	117,603	23.5%
Northeast	69,430	13.9%
South	207,210	41.3%
West	101,574	20.3%
Missing	136	0.0%
Other	100	0.0%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Health Characteristics	ADHD Stimulant Medication Patients of Age 5+ Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.0	1.7
Combined comorbidity score categories		
<=0	264,950	52.8%
1-2	188,335	37.6%
3-4	26,421	5.3%
5+	21,651	4.3%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	501,357	100.0%
ADHD Non-Stimulant Medication on index date or year prior	29,687	5.9%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	70,099	14.0%
Medication for Opioid-Related Disorders on index date or year prior	4,418	0.9%
Antidepressant Medication on index date or year prior	226,728	45.2%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	127,218	25.4%
Antipsychotic Medication on index date or year prior	50,966	10.2%
Mood Stabilizers on index date or year prior	34,667	6.9%
Cancer on index date or year prior	15,335	3.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	190,400	38.0%
ADHD on Index Date or year prior	297,721	59.4%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	16,740	3.3%
Narcolepsy on index date or year prior	4,061	0.8%
Binge-Eating Disorder on index date or year prior	7,481	1.5%
ADHD on Index Date or 30 days Prior	260,391	51.9%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	8,394	1.7%
Narcolepsy on index date or 30 days Prior	2,445	0.5%
Binge-Eating Disorder on index date or 30 days Prior	6,236	1.2%
Hypertension on index date or year prior	78,035	15.6%
Coronary artery disease on index date or year prior	18,728	3.7%
Cardiac arrhythmia on index date or year prior	31,720	6.3%
Cardiomyopathy on index date or year prior	3,177	0.6%
Cardiac structural abnormality on index date or year prior	3,113	0.6%
All other diseases of the circulatory system on index date or year prior	21,398	4.3%
Epilepsy or recurrent seizures on index date or year prior	7,124	1.4%
Other seizure or convulsions on index date or year prior	7,357	1.5%
Depression on index date or year prior	166,337	33.2%
Anxiety on index date or year prior	219,133	43.7%
Bipolar Disorder on index date or year prior	29,925	6.0%
Sleep Disorder on index date or year prior	97,975	19.5%
Psychotic Disorder on index date or year prior	8,456	1.7%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	27,249	5.4%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	690	0.1%
Autistic Disorder on index date or year prior	11,562	2.3%
Any Substance-Related Disorders on index date or year prior	69,941	14.0%
Opioid-Related Disorders on index date or year prior	11,991	2.4%
Stimulant-Related Disorders on index date or year prior	4,543	0.9%
Cocaine-Related Disorders on index date or year prior	1,926	0.4%
Other Stimulant-Related Disorders on index date or year prior	3,146	0.6%
Alcohol-Related Disorders on index date or year prior	13,547	2.7%
Cannabis-Related Disorders on index date or year prior	10,585	2.1%
Tobacco-Related Disorders on index date or year prior	49,744	9.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	10,231	2.0%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	904	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	514	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	170	0.0%
Intentional Poisoning by Broad Category on index date or year prior	1,922	0.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	195,066	38.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	234,058	46.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	2,834	0.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	1,526	0.3%
At least One Encounter in the Emergency Department in Year Prior	95,919	19.1%
At least One Encounter in the Inpatient Care Setting in Year Prior	35,893	7.2%
At least One Encounter in the Outpatient Care Setting in Year Prior	486,500	97.0%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	240,335	47.9%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	68,761	13.7%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	45,571	9.1%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	53,442	10.7%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	29,876	6.0%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	33,683	6.7%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	25,477	5.1%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Stimulant Medication Patients of Age 5+ Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	983	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	1,610	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	652	0.1%
Dextroamphetamine Single-entity Products Immediate Release	6,369	1.3%
Dextroamphetamine Single-entity Products Extended Release	4,423	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate	194,969	38.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	171,635	34.2%
Lisdexamfetamine Extended Release	113,138	22.6%
Methamphetamine Single-entity Products Immediate Release	49	0.0%
Methylphenidate Single-entity Products Immediate Release	85,904	17.1%
Methylphenidate Single-entity Products Extended Release Oral Solid	106,840	21.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	2,443	0.5%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	867	0.2%
Dexmethylphenidate Single-entity Products Immediate Release	14,331	2.9%
Dexmethylphenidate Single-entity Products Extended Release	32,890	6.6%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	1,562	0.3%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	281,236	56.1%
Any ADHD Stimulant API Extended Release	349,780	69.8%
Atomoxetine Immediate Release	19,859	4.0%
Guanfacine Extended Release	16,709	3.3%
Viloxazine Extended Release	1,681	0.3%
Clonidine Extended Release	2,280	0.5%
Any ADHD Non-Stimulant API Extended Release	19,733	3.9%
Codeine	48	0.0%
Fentanyl	1,607	0.3%
Hydrocodone	56,332	11.2%
Hydromorphone	3,567	0.7%
Morphine	3,896	0.8%
Oxycodone	45,554	9.1%
Oxymorphone	92	0.0%
Other C-II Opioid Analgesics	1,330	0.3%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	15.8	18.7
Mean number of emergency room encounters	0.3	1.1
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	4.5	10.7
Mean number of filled prescriptions	18.8	22.9
Mean number of generics dispensed	6.8	5.4
Mean number of unique drug classes dispensed	6.3	4.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	109,438	21.8%
Diagnosis 2: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	84,204	16.8%
Diagnosis 3: F411 — Generalized Anxiety Disorder	78,737	15.7%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	69,449	13.9%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	54,597	10.9%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

Table 1b. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Patient Characteristics	Number	
Unique patients	170,813	
Healthcare Payor Status	Number	Percent
Commercial payor patients	118,069	69.1%
Medicare Members	52,744	30.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	41.0	17.9
	Number	Percent
Age		
5-12 years	25,061	14.7%
13-17 years	17,528	10.3%
18-25 years	21,761	12.7%
26-29 years	7,667	4.5%
30-39 years	21,308	12.5%
40-49 years	16,422	9.6%
50-64 years	19,730	11.6%
≥ 65 years	41,336	24.2%
Sex		
Female	93,235	54.6%
Male	77,578	45.4%
Race ¹		
American Indian or Alaska Native	539	0.3%
Asian	1,912	1.1%
Black or African American	11,850	6.9%
Multi-racial	2,556	1.5%
Native Hawaiian or Other Pacific Islander	95	0.1%
Unknown	96,390	56.4%
White	57,471	33.6%
Hispanic origin		
Yes	3,291	1.9%
No	60,157	35.2%
Unknown	107,365	62.9%
Year		
2020	54,282	31.8%
2021	90,646	53.1%
2022	25,885	15.2%
Census Bureau Region ²		
Invalid	1,289	0.8%
Midwest	40,467	23.7%
Northeast	23,163	13.6%
South	72,966	42.7%
West	32,848	19.2%
Missing	31	0.0%
Other	49	0.0%

Table 1b. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.3	2.7
Combined comorbidity score categories		
<=0	59,342	34.7%
1-2	63,639	37.3%
3-4	17,860	10.5%
5+	29,972	17.5%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	45,131	26.4%
ADHD Non-Stimulant Medication on index date or year prior	170,813	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	31,157	18.2%
Medication for Opioid-Related Disorders on index date or year prior	2,900	1.7%
Antidepressant Medication on index date or year prior	89,568	52.4%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	54,364	31.8%
Antipsychotic Medication on index date or year prior	30,570	17.9%
Mood Stabilizers on index date or year prior	19,068	11.2%
Cancer on index date or year prior	7,804	4.6%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	85,468	50.0%
ADHD on Index Date or year prior	77,096	45.1%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	11,278	6.6%
Narcolepsy on index date or year prior	469	0.3%
Binge-Eating Disorder on index date or year prior	745	0.4%
ADHD on Index Date or 30 days Prior	63,528	37.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	5,770	3.4%
Narcolepsy on index date or 30 days Prior	194	0.1%
Binge-Eating Disorder on index date or 30 days Prior	385	0.2%
Hypertension on index date or year prior	65,307	38.2%
Coronary artery disease on index date or year prior	26,797	15.7%
Cardiac arrhythmia on index date or year prior	30,177	17.7%
Cardiomyopathy on index date or year prior	4,743	2.8%
Cardiac structural abnormality on index date or year prior	1,931	1.1%
All other diseases of the circulatory system on index date or year prior	19,683	11.5%
Epilepsy or recurrent seizures on index date or year prior	6,330	3.7%
Other seizure or convulsions on index date or year prior	6,825	4.0%
Depression on index date or year prior	65,423	38.3%
Anxiety on index date or year prior	87,113	51.0%
Bipolar Disorder on index date or year prior	17,038	10.0%
Sleep Disorder on index date or year prior	50,149	29.4%
Psychotic Disorder on index date or year prior	10,125	5.9%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	13,324	7.8%

Table 1b. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	590	0.3%
Autistic Disorder on index date or year prior	7,486	4.4%
Any Substance-Related Disorders on index date or year prior	44,794	26.2%
Opioid-Related Disorders on index date or year prior	9,582	5.6%
Stimulant-Related Disorders on index date or year prior	5,631	3.3%
Cocaine-Related Disorders on index date or year prior	2,487	1.5%
Other Stimulant-Related Disorders on index date or year prior	4,101	2.4%
Alcohol-Related Disorders on index date or year prior	10,118	5.9%
Cannabis-Related Disorders on index date or year prior	8,285	4.9%
Tobacco-Related Disorders on index date or year prior	33,496	19.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	7,054	4.1%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,048	0.6%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	653	0.4%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	234	0.1%
Intentional Poisoning by Broad Category on index date or year prior	1,571	0.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	93,188	54.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	106,986	62.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	3,069	1.8%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	1,786	1.0%
At least One Encounter in the Emergency Department in Year Prior	55,858	32.7%
At least One Encounter in the Inpatient Care Setting in Year Prior	35,183	20.6%
At least One Encounter in the Outpatient Care Setting in Year Prior	168,469	98.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	88,302	51.7%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	23,039	13.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	17,767	10.4%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	30,282	17.7%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	41,449	24.3%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	18,694	10.9%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	13,789	8.1%

Table 1b. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	175	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	348	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	155	0.1%
Dextroamphetamine Single-entity Products Immediate Release	1,022	0.6%
Dextroamphetamine Single-entity Products Extended Release	785	0.5%
Amphetamine/Dextroamphetamine Combination Products Immediate	18,268	10.7%
Amphetamine/Dextroamphetamine Combination Products Extended Release	18,760	11.0%
Lisdexamfetamine Extended Release	16,500	9.7%
Methamphetamine Single-entity Products Immediate Release	13	0.0%
Methylphenidate Single-entity Products Immediate Release	9,450	5.5%
Methylphenidate Single-entity Products Extended Release Oral Solid	16,878	9.9%
Methylphenidate Single-entity Products Extended Release Oral Liquid	404	0.2%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	290	0.2%
Dexmethylphenidate Single-entity Products Immediate Release	3,239	1.9%
Dexmethylphenidate Single-entity Products Extended Release	6,206	3.6%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	568	0.3%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	29,162	17.1%
Any ADHD Stimulant API Extended Release	46,660	27.3%
Atomoxetine Immediate Release	81,724	47.8%
Guanfacine Extended Release	41,652	24.4%
Viloxazine Extended Release	2,382	1.4%
Clonidine Extended Release	54,719	32.0%
Any ADHD Non-Stimulant API Extended Release	96,548	56.5%
Codeine	16	0.0%
Fentanyl	970	0.6%
Hydrocodone	23,797	13.9%
Hydromorphone	1,766	1.0%
Morphine	2,492	1.5%
Oxycodone	18,908	11.1%
Oxymorphone	66	0.0%
Other C-II Opioid Analgesics	645	0.4%

Table 1b. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	25.6	33.8
Mean number of emergency room encounters	0.8	2.3
Mean number of inpatient hospital encounters	0.4	1.1
Mean number of non-acute institutional encounters	0.1	0.6
Mean number of other ambulatory encounters	10.3	21.3
Mean number of filled prescriptions	35.5	34.9
Mean number of generics dispensed	10.3	6.7
Mean number of unique drug classes dispensed	9.4	5.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	44,890	26.3%
Diagnosis 2: F411 — Generalized Anxiety Disorder	29,798	17.4%
Diagnosis 3: F419 — Anxiety Disorder Unspecified	24,587	14.4%
Diagnosis 4: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	22,968	13.4%
Diagnosis 5: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	19,607	11.5%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years		
Patient Characteristics	Number	
Unique patients	2,571,447	
Healthcare Payor Status	Number	Percent
Commercial payor patients	1,055,805	41.1%
Medicare Members	1,515,642	58.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	67.0	12.4
Age	Number	Percent
5-12 years	2,491	0.1%
13-17 years	6,741	0.3%
18-25 years	37,113	1.4%
26-29 years	23,436	0.9%
30-39 years	108,874	4.2%
40-49 years	172,364	6.7%
50-64 years	496,448	19.3%
≥ 65 years	1,723,980	67.0%
Sex		
Female	1,472,050	57.2%
Male	1,099,397	42.8%
Race ¹		
American Indian or Alaska Native	9,054	0.4%
Asian	23,491	0.9%
Black or African American	154,657	6.0%
Multi-racial	9,809	0.4%
Native Hawaiian or Other Pacific Islander	2,592	0.1%
Unknown	703,571	27.4%
White	1,668,273	64.9%
Hispanic origin		
Yes	33,863	1.3%
No	1,719,453	66.9%
Unknown	818,131	31.8%
Year		
2020	964,738	37.5%
2021	1,302,945	50.7%
2022	303,764	11.8%
Census Bureau Region ²		
Invalid	8,360	0.3%
Midwest	671,099	26.1%
Northeast	293,253	11.4%
Missing	179	0.0%
South	1,085,549	42.2%
West	512,057	19.9%
Other	950	0.0%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.0	3.5
Combined comorbidity score categories		
<=0	764,941	29.7%
1-2	722,734	28.1%
3-4	388,865	15.1%
5+	694,907	27.0%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	53,989	2.1%
ADHD Non-Stimulant Medication on index date or year prior	11,240	0.4%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	2,571,447	100.0%
Medication for Opioid-Related Disorders on index date or year prior	9,861	0.4%
Antidepressant Medication on index date or year prior	1,022,941	39.8%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	761,969	29.6%
Antipsychotic Medication on index date or year prior	218,310	8.5%
Mood Stabilizers on index date or year prior	99,098	3.9%
Cancer on index date or year prior	425,028	16.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	2,257,445	87.8%
ADHD on Index Date or year prior	45,158	1.8%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	13,981	0.5%
Narcolepsy on index date or year prior	4,545	0.2%
Binge-Eating Disorder on index date or year prior	2,212	0.1%
ADHD on Index Date or 30 days Prior	18,675	0.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	3,682	0.1%
Narcolepsy on index date or 30 days Prior	1,480	0.1%
Binge-Eating Disorder on index date or 30 days Prior	681	0.0%
Hypertension on index date or year prior	1,831,895	71.2%
Coronary artery disease on index date or year prior	773,784	30.1%
Cardiac arrhythmia on index date or year prior	700,959	27.3%
Cardiomyopathy on index date or year prior	140,367	5.5%
Cardiac structural abnormality on index date or year prior	32,408	1.3%
All other diseases of the circulatory system on index date or year prior	506,956	19.7%
Epilepsy or recurrent seizures on index date or year prior	69,208	2.7%
Other seizure or convulsions on index date or year prior	66,913	2.6%
Depression on index date or year prior	682,614	26.5%
Anxiety on index date or year prior	749,309	29.1%
Bipolar Disorder on index date or year prior	80,761	3.1%
Sleep Disorder on index date or year prior	987,446	38.4%
Psychotic Disorder on index date or year prior	62,710	2.4%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	53,449	2.1%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	2,175	0.1%
Autistic Disorder on index date or year prior	3,015	0.1%
Any Substance-Related Disorders on index date or year prior	981,697	38.2%
Opioid-Related Disorders on index date or year prior	83,427	3.2%
Stimulant-Related Disorders on index date or year prior	15,869	0.6%
Cocaine-Related Disorders on index date or year prior	8,113	0.3%
Other Stimulant-Related Disorders on index date or year prior	9,009	0.4%
Alcohol-Related Disorders on index date or year prior	91,672	3.6%
Cannabis-Related Disorders on index date or year prior	32,411	1.3%
Tobacco-Related Disorders on index date or year prior	897,762	34.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	144,067	5.6%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	4,045	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	2,542	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	618	0.0%
Intentional Poisoning by Broad Category on index date or year prior	20,177	0.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	2,520,483	98.0%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	2,550,810	99.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	13,076	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	3,516	0.1%
At least One Encounter in the Emergency Department in Year Prior	1,020,223	39.7%
At least One Encounter in the Inpatient Care Setting in Year Prior	813,651	31.6%
At least One Encounter in the Outpatient Care Setting in Year Prior	2,560,904	99.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	909,155	35.4%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	316,643	12.3%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	181,806	7.1%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	176,287	6.9%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	41,610	1.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	9,305	0.4%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	39,749	1.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	8,554	0.3%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	89	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	132	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	1,186	0.0%
Dextroamphetamine Single-entity Products Extended Release	744	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	31,843	1.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	17,707	0.7%
Lisdexamfetamine Extended Release	11,992	0.5%
Methamphetamine Single-entity Products Immediate Release	23	0.0%
Methylphenidate Single-entity Products Immediate Release	12,917	0.5%
Methylphenidate Single-entity Products Extended Release Oral Solid	5,850	0.2%
Methylphenidate Single-entity Products Extended Release Oral Liquid	13	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	49	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	811	0.0%
Dexmethylphenidate Single-entity Products Extended Release	1,066	0.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	122	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	44,449	1.7%
Any ADHD Stimulant API Extended Release	32,770	1.3%
Atomoxetine Immediate Release	5,791	0.2%
Guanfacine Extended Release	1,345	0.1%
Viloxazine Extended Release	183	0.0%
Clonidine Extended Release	9,425	0.4%
Any ADHD Non-Stimulant API Extended Release	10,897	0.4%
Codeine	1,658	0.1%
Fentanyl	48,725	1.9%
Hydrocodone	1,621,645	63.1%
Hydromorphone	98,010	3.8%
Morphine	145,851	5.7%
Oxycodone	1,327,537	51.6%
Oxymorphone	416	0.0%
Other C-II Opioid Analgesics	16,727	0.7%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	27.2	27.1
Mean number of emergency room encounters	0.9	2.0
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	0.1	0.5
Mean number of other ambulatory encounters	10.3	20.0
Mean number of filled prescriptions	38.5	33.9
Mean number of generics dispensed	12.1	6.3
Mean number of unique drug classes dispensed	10.9	5.4
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	1,186,429	46.1%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	648,113	25.2%
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	623,809	24.3%
Diagnosis 4: Z79899 — Other Long Term Current Drug Therapy	611,552	23.8%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	444,064	17.3%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	126,400	
Healthcare Payor Status	Number	Percent
Commercial payor patients	126,388	99.99%
Medicare Members	12	0.01%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	12.0	3.7
	Number	Percent
Age		
5-12 years	70,173	55.5%
13-17 years	56,227	44.5%
Sex		
Female	51,738	40.9%
Male	74,662	59.1%
Race ¹		
American Indian or Alaska Native	57	0.0%
Asian	472	0.4%
Black or African American	783	0.6%
Multi-racial	2,955	2.3%
Native Hawaiian or Other Pacific Islander	23	0.0%
Unknown	109,549	86.7%
White	12,561	9.9%
Hispanic origin		
Yes	1,428	1.1%
No	4,858	3.8%
Unknown	120,114	95.0%
Year		
2020	38,284	30.3%
2021	67,155	53.1%
2022	20,961	16.6%
Census Bureau Region ²		
Invalid	1,146	0.9%
Midwest	33,703	26.7%
Northeast	14,400	11.4%
South	53,707	42.5%
West	23,384	18.5%
Missing	35	0.0%
Other	25	0.0%

Table 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.4	0.7
Combined comorbidity score categories		
<=0	89,810	71.1%
1-2	34,518	27.3%
3-4	1,859	1.5%
5+	213	0.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	126,400	100.0%
ADHD Non-Stimulant Medication on index date or year prior	10,404	8.2%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	3,566	2.8%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	27,138	21.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	8,121	6.4%
Antipsychotic Medication on index date or year prior	5,524	4.4%
Mood Stabilizers on index date or year prior	3,154	2.5%
Cancer on index date or year prior	123	0.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	21,079	16.7%
ADHD on Index Date or year prior	100,223	79.3%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	13,029	10.3%
Narcolepsy on index date or year prior	157	0.1%
Binge-Eating Disorder on index date or year prior	273	0.2%
ADHD on Index Date or 30 days Prior	88,008	69.6%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	6,920	5.5%
Narcolepsy on index date or 30 days Prior	95	0.1%
Binge-Eating Disorder on index date or 30 days Prior	190	0.2%
Hypertension on index date or year prior	560	0.4%
Coronary artery disease on index date or year prior	66	0.1%
Cardiac arrhythmia on index date or year prior	2,468	2.0%
Cardiomyopathy on index date or year prior	77	0.1%
Cardiac structural abnormality on index date or year prior	1,110	0.9%
All other diseases of the circulatory system on index date or year prior	1,049	0.8%
Epilepsy or recurrent seizures on index date or year prior	1,379	1.1%
Other seizure or convulsions on index date or year prior	1,426	1.1%
Depression on index date or year prior	20,893	16.5%
Anxiety on index date or year prior	39,087	30.9%
Bipolar Disorder on index date or year prior	1,442	1.1%
Sleep Disorder on index date or year prior	8,254	6.5%
Psychotic Disorder on index date or year prior	921	0.7%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	2,386	1.9%

Table 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Manic Episode on index date or year prior	33	0.0%
Autistic Disorder on index date or year prior	7,822	6.2%
Any Substance-Related Disorders on index date or year prior	1,959	1.5%
Opioid-Related Disorders on index date or year prior	130	0.1%
Stimulant-Related Disorders on index date or year prior	123	0.1%
Cocaine-Related Disorders on index date or year prior	31	0.0%
Other Stimulant-Related Disorders on index date or year prior	99	0.1%
Alcohol-Related Disorders on index date or year prior	464	0.4%
Cannabis-Related Disorders on index date or year prior	1,213	1.0%
Tobacco-Related Disorders on index date or year prior	626	0.5%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	218	0.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	73	0.1%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	14	0.0%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	13	0.0%
Intentional Poisoning by Broad Category on index date or year prior	140	0.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	25,944	20.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	38,212	30.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,444	1.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	948	0.8%
At least One Encounter in the Emergency Department in Year Prior	17,657	14.0%
At least One Encounter in the Inpatient Care Setting in Year Prior	3,837	3.0%
At least One Encounter in the Outpatient Care Setting in Year Prior	123,212	97.5%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	35,939	28.4%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	1,462	1.2%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	2,503	2.0%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	7,759	6.1%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	14,892	11.8%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	224	0.2%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	170	0.1%

Table 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5-17 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	315	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	718	0.6%
Amphetamine Single-entity Products Extended Release Oral Liquid	593	0.5%
Dextroamphetamine Single-entity Products Immediate Release	1,057	0.8%
Dextroamphetamine Single-entity Products Extended Release	914	0.7%
Amphetamine/Dextroamphetamine Combination Products Immediate	19,156	15.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	36,414	28.8%
Lisdexamfetamine Extended Release	30,632	24.2%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	23,094	18.3%
Methylphenidate Single-entity Products Extended Release Oral Solid	56,153	44.4%
Methylphenidate Single-entity Products Extended Release Oral Liquid	2,378	1.9%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	634	0.5%
Dexmethylphenidate Single-entity Products Immediate Release	8,390	6.6%
Dexmethylphenidate Single-entity Products Extended Release	24,149	19.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	955	0.8%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	47,164	37.3%
Any ADHD Stimulant API Extended Release	114,606	90.7%
Atomoxetine Immediate Release	6,303	5.0%
Guanfacine Extended Release	12,387	9.8%
Viloxazine Extended Release	1,169	0.9%
Clonidine Extended Release	1,345	1.1%
Any ADHD Non-Stimulant API Extended Release	14,104	11.2%
Codeine	0	0.0%
Fentanyl	*****	*****
Hydrocodone	5,711	4.5%
Hydromorphone	37	0.0%
Morphine	11	0.0%
Oxycodone	2,696	2.1%
Oxymorphone	0	0.0%
Other C-II Opioid Analgesics	21	0.0%

Table 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 5-17 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.3	18.6
Mean number of emergency room encounters	0.2	0.7
Mean number of inpatient hospital encounters	0.0	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	2.7	10.0
Mean number of filled prescriptions	6.8	9.6
Mean number of generics dispensed	3.3	2.7
Mean number of unique drug classes dispensed	3.1	2.5
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	40,411	32.0%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	30,539	24.2%
Diagnosis 3: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	17,889	14.2%
Diagnosis 4: Z23 — Encounter For Immunization	17,175	13.6%
Diagnosis 5: Z00129 — Encounter Routine Child Health Exam Without Abnormal Find	15,377	12.2%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1e. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	42,589	
Healthcare Payor Status	Number	Percent
Commercial payor patients	42,561	99.9%
Medicare Members	28	0.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	11.9	3.5
	Number	Percent
Age		
5-12 years	25,061	58.8%
13-17 years	17,528	41.2%
Sex		
Female	16,170	38.0%
Male	26,419	62.0%
Race ¹		
American Indian or Alaska Native	*****	*****
Asian	130	0.3%
Black or African American	280	0.7%
Multi-racial	1,051	2.5%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	36,788	86.4%
White	4,307	10.1%
Hispanic origin		
Yes	475	1.1%
No	1,569	3.7%
Unknown	40,545	95.2%
Year		
2020	13,365	31.4%
2021	22,449	52.7%
2022	6,775	15.9%
Census Bureau Region ²		
Invalid	314	0.7%
Midwest	12,043	28.3%
Northeast	5,234	12.3%
South	17,398	40.9%
West	7,582	17.8%
Missing	*****	*****
Other	*****	*****

Table 1e. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.6	0.9
Combined comorbidity score categories		
<=0	25,938	60.9%
1-2	15,193	35.7%
3-4	1,248	2.9%
5+	210	0.5%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	22,344	52.5%
ADHD Non-Stimulant Medication on index date or year prior	42,589	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	1,178	2.8%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	14,718	34.6%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	5,020	11.8%
Antipsychotic Medication on index date or year prior	4,666	11.0%
Mood Stabilizers on index date or year prior	2,257	5.3%
Cancer on index date or year prior	45	0.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	7,753	18.2%
ADHD on Index Date or year prior	32,798	77.0%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	8,199	19.3%
Narcolepsy on index date or year prior	21	0.0%
Binge-Eating Disorder on index date or year prior	80	0.2%
ADHD on Index Date or 30 days Prior	26,906	63.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	4,619	10.8%
Narcolepsy on index date or 30 days Prior	*****	*****
Binge-Eating Disorder on index date or 30 days Prior	34	0.1%
Hypertension on index date or year prior	387	0.9%
Coronary artery disease on index date or year prior	48	0.1%
Cardiac arrhythmia on index date or year prior	1,379	3.2%
Cardiomyopathy on index date or year prior	41	0.1%
Cardiac structural abnormality on index date or year prior	526	1.2%
All other diseases of the circulatory system on index date or year prior	516	1.2%
Epilepsy or recurrent seizures on index date or year prior	760	1.8%
Other seizure or convulsions on index date or year prior	893	2.1%
Depression on index date or year prior	9,522	22.4%
Anxiety on index date or year prior	19,320	45.4%
Bipolar Disorder on index date or year prior	1,133	2.7%
Sleep Disorder on index date or year prior	4,390	10.3%
Psychotic Disorder on index date or year prior	805	1.9%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	1,660	3.9%

Table 1e. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	29	0.1%
Autistic Disorder on index date or year prior	4,971	11.7%
Any Substance-Related Disorders on index date or year prior	1,517	3.6%
Opioid-Related Disorders on index date or year prior	132	0.3%
Stimulant-Related Disorders on index date or year prior	155	0.4%
Cocaine-Related Disorders on index date or year prior	49	0.1%
Other Stimulant-Related Disorders on index date or year prior	116	0.3%
Alcohol-Related Disorders on index date or year prior	410	1.0%
Cannabis-Related Disorders on index date or year prior	1,007	2.4%
Tobacco-Related Disorders on index date or year prior	529	1.2%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	166	0.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	68	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	12	0.0%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	26	0.1%
Intentional Poisoning by Broad Category on index date or year prior	174	0.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	9,767	22.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	15,671	36.8%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,337	3.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	1,089	2.6%
At least One Encounter in the Emergency Department in Year Prior	8,061	18.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	3,030	7.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	42,029	98.7%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	17,193	40.4%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	822	1.9%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	1,314	3.1%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	6,040	14.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	20,417	47.9%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	62	0.1%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	50	0.1%

Table 1e. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	98	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	241	0.6%
Amphetamine Single-entity Products Extended Release Oral Liquid	147	0.3%
Dextroamphetamine Single-entity Products Immediate Release	331	0.8%
Dextroamphetamine Single-entity Products Extended Release	270	0.6%
Amphetamine/Dextroamphetamine Combination Products Immediate	3,826	9.0%
Amphetamine/Dextroamphetamine Combination Products Extended Release	5,768	13.5%
Lisdexamfetamine Extended Release	6,738	15.8%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	4,626	10.9%
Methylphenidate Single-entity Products Extended Release Oral Solid	10,495	24.6%
Methylphenidate Single-entity Products Extended Release Oral Liquid	394	0.9%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	234	0.5%
Dexmethylphenidate Single-entity Products Immediate Release	2,363	5.5%
Dexmethylphenidate Single-entity Products Extended Release	4,848	11.4%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	432	1.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	10,208	24.0%
Any ADHD Stimulant API Extended Release	21,878	51.4%
Atomoxetine Immediate Release	16,102	37.8%
Guanfacine Extended Release	27,017	63.4%
Viloxazine Extended Release	1,795	4.2%
Clonidine Extended Release	3,349	7.9%
Any ADHD Non-Stimulant API Extended Release	30,433	71.5%
Codeine	0	0.0%
Fentanyl	*****	*****
Hydrocodone	1,771	4.2%
Hydromorphone	15	0.0%
Morphine	11	0.0%
Oxycodone	939	2.2%
Oxymorphone	0	0.0%
Other C-II Opioid Analgesics	17	0.0%

Table 1e. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	17.2	23.6
Mean number of emergency room encounters	0.3	0.9
Mean number of inpatient hospital encounters	0.1	0.6
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.1	13.3
Mean number of filled prescriptions	13.5	13.8
Mean number of generics dispensed	4.5	3.2
Mean number of unique drug classes dispensed	4.3	2.9
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	15,117	35.5%
Diagnosis 2: F411 — Generalized Anxiety Disorder	7,028	16.5%
Diagnosis 3: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	6,527	15.3%
Diagnosis 4: F419 — Anxiety Disorder Unspecified	6,350	14.9%
Diagnosis 5: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	5,992	14.1%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

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

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	9,232	
Healthcare Payor Status	Number	Percent
Commercial payor patients	9,216	99.8%
Medicare Members	16	0.2%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	14.2	3.5
	Number	Percent
Age		
5-12 years	2,491	27.0%
13-17 years	6,741	73.0%
Sex		
Female	4,704	51.0%
Male	4,528	49.0%
Race ¹		
American Indian or Alaska Native	*****	*****
Asian	*****	*****
Black or African American	46	0.5%
Multi-racial	71	0.8%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	8,615	93.3%
White	472	5.1%
Hispanic origin		
Yes	57	0.6%
No	262	2.8%
Unknown	8,913	96.5%
Year		
2020	3,719	40.3%
2021	4,551	49.3%
2022	962	10.4%
Census Bureau Region ²		
Invalid	*****	*****
Midwest	3,157	34.2%
Northeast	481	5.2%
South	3,668	39.7%
West	1,869	20.2%
Missing	*****	*****
Other	*****	*****

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.6	1.6
Combined comorbidity score categories		
<=0	6,400	69.3%
1-2	2,293	24.8%
3-4	279	3.0%
5+	260	2.8%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	794	8.6%
ADHD Non-Stimulant Medication on index date or year prior	179	1.9%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	9,232	100.0%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	1,210	13.1%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	1,349	14.6%
Antipsychotic Medication on index date or year prior	258	2.8%
Mood Stabilizers on index date or year prior	151	1.6%
Cancer on index date or year prior	161	1.7%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	5,129	55.6%
ADHD on Index Date or year prior	946	10.2%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	216	2.3%
Narcolepsy on index date or year prior	*****	*****
Binge-Eating Disorder on index date or year prior	*****	*****
ADHD on Index Date or 30 days Prior	410	4.4%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	65	0.7%
Narcolepsy on index date or 30 days Prior	*****	*****
Binge-Eating Disorder on index date or 30 days Prior	0	0.0%
Hypertension on index date or year prior	219	2.4%
Coronary artery disease on index date or year prior	26	0.3%
Cardiac arrhythmia on index date or year prior	536	5.8%
Cardiomyopathy on index date or year prior	40	0.4%
Cardiac structural abnormality on index date or year prior	150	1.6%
All other diseases of the circulatory system on index date or year prior	363	3.9%
Epilepsy or recurrent seizures on index date or year prior	160	1.7%
Other seizure or convulsions on index date or year prior	157	1.7%
Depression on index date or year prior	916	9.9%
Anxiety on index date or year prior	1,494	16.2%
Bipolar Disorder on index date or year prior	52	0.6%
Sleep Disorder on index date or year prior	1,701	18.4%
Psychotic Disorder on index date or year prior	44	0.5%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	115	1.2%
Manic Episode on index date or year prior	*****	*****

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Health Characteristics	Number	Percent
Autistic Disorder on index date or year prior	167	1.8%
Any Substance-Related Disorders on index date or year prior	240	2.6%
Opioid-Related Disorders on index date or year prior	84	0.9%
Stimulant-Related Disorders on index date or year prior	*****	*****
Cocaine-Related Disorders on index date or year prior	*****	*****
Other Stimulant-Related Disorders on index date or year prior	*****	*****
Alcohol-Related Disorders on index date or year prior	26	0.3%
Cannabis-Related Disorders on index date or year prior	72	0.8%
Tobacco-Related Disorders on index date or year prior	97	1.1%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	25	0.3%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	*****	*****
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	*****	*****
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	*****	*****
Intentional Poisoning by Broad Category on index date or year prior	61	0.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	8,276	89.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	8,819	95.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	119	1.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	43	0.5%
At least One Encounter in the Emergency Department in Year Prior	2,778	30.1%
At least One Encounter in the Inpatient Care Setting in Year Prior	1,435	15.5%
At least One Encounter in the Outpatient Care Setting in Year Prior	9,134	98.9%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	835	9.0%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	444	4.8%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	65	0.7%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	174	1.9%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	355	3.8%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	110	1.2%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	352	3.8%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	109	1.2%

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	*****	*****
Amphetamine Single-entity Products Extended Release Oral Solid	*****	*****
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	11	0.1%
Dextroamphetamine Single-entity Products Extended Release	*****	*****
Amphetamine/Dextroamphetamine Combination Products Immediate	190	2.1%
Amphetamine/Dextroamphetamine Combination Products Extended Release	279	3.0%
Lisdexamfetamine Extended Release	314	3.4%
Methamphetamine Single-entity Products Immediate Release	0	0.0%
Methylphenidate Single-entity Products Immediate Release	158	1.7%
Methylphenidate Single-entity Products Extended Release Oral Solid	361	3.9%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	53	0.6%
Dexmethylphenidate Single-entity Products Extended Release	141	1.5%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	*****	*****
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	382	4.1%
Any ADHD Stimulant API Extended Release	923	10.0%
Atomoxetine Immediate Release	131	1.4%
Guanfacine Extended Release	137	1.5%
Viloxazine Extended Release	17	0.2%
Clonidine Extended Release	46	0.5%
Any ADHD Non-Stimulant API Extended Release	191	2.1%
Codeine	*****	*****
Fentanyl	17	0.2%
Hydrocodone	6,095	66.0%
Hydromorphone	118	1.3%
Morphine	109	1.2%
Oxycodone	3,841	41.6%
Oxymorphone	0	0.0%
Other C-II Opioid Analgesics	96	1.0%

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	15.4	18.8
Mean number of emergency room encounters	0.5	1.2
Mean number of inpatient hospital encounters	0.3	1.1
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.8	13.5
Mean number of filled prescriptions	10.9	14.8
Mean number of generics dispensed	5.6	4.2
Mean number of unique drug classes dispensed	5.1	3.7
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: G8918 — Other Acute Postprocedural Pain	1,879	20.4%
Diagnosis 2: Z20822 — Contact With And (Suspected) Exposure To Covid-19	1,850	20.0%
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	1,669	18.1%
Diagnosis 4: J353 — Hypertrophy Tonsils With Hypertrophy Of Adenoids	1,228	13.3%
Diagnosis 5: Z01812 — No Description Available	1,142	12.4%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1g. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18-25 Years		
Patient Characteristics	Number	
Unique patients	97,078	
Healthcare Payor Status	Number	Percent
Commercial payor patients	95,808	98.7%
Medicare Members	1,270	1.3%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	22.0	2.3
	Number	Percent
Age		
18-25 years	97,078	100.0%
Sex		
Female	55,510	57.2%
Male	41,568	42.8%
Race ¹		
American Indian or Alaska Native	65	0.1%
Asian	724	0.7%
Black or African American	754	0.8%
Multi-racial	2,283	2.4%
Native Hawaiian or Other Pacific Islander	23	0.0%
Unknown	81,670	84.1%
White	11,559	11.9%
Hispanic origin		
Yes	1,286	1.3%
No	4,434	4.6%
Unknown	91,358	94.1%
Year		
2020	29,187	30.1%
2021	52,826	54.4%
2022	15,065	15.5%
Census Bureau Region ²		
Invalid	1,043	1.1%
Midwest	22,795	23.5%
Northeast	13,952	14.4%
South	39,232	40.4%
West	19,987	20.6%
Missing	49	0.1%
Other	20	0.0%

Table 1g. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.7	0.9
Combined comorbidity score categories		
<=0	51,537	53.1%
1-2	41,824	43.1%
3-4	3,235	3.3%
5+	482	0.5%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	97,078	100.0%
ADHD Non-Stimulant Medication on index date or year prior	5,787	6.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	9,156	9.4%
Medication for Opioid-Related Disorders on index date or year prior	259	0.3%
Antidepressant Medication on index date or year prior	43,666	45.0%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	18,216	18.8%
Antipsychotic Medication on index date or year prior	8,248	8.5%
Mood Stabilizers on index date or year prior	6,797	7.0%
Cancer on index date or year prior	192	0.2%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	25,785	26.6%
ADHD on Index Date or year prior	61,416	63.3%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,217	1.3%
Narcolepsy on index date or year prior	545	0.6%
Binge-Eating Disorder on index date or year prior	1,068	1.1%
ADHD on Index Date or 30 days Prior	54,675	56.3%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	470	0.5%
Narcolepsy on index date or 30 days Prior	316	0.3%
Binge-Eating Disorder on index date or 30 days Prior	837	0.9%
Hypertension on index date or year prior	1,949	2.0%
Coronary artery disease on index date or year prior	152	0.2%
Cardiac arrhythmia on index date or year prior	4,020	4.1%
Cardiomyopathy on index date or year prior	72	0.1%
Cardiac structural abnormality on index date or year prior	425	0.4%
All other diseases of the circulatory system on index date or year prior	1,509	1.6%
Epilepsy or recurrent seizures on index date or year prior	779	0.8%
Other seizure or convulsions on index date or year prior	917	0.9%
Depression on index date or year prior	33,210	34.2%
Anxiety on index date or year prior	45,488	46.9%
Bipolar Disorder on index date or year prior	5,658	5.8%
Sleep Disorder on index date or year prior	9,611	9.9%
Psychotic Disorder on index date or year prior	1,202	1.2%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	5,293	5.5%

Table 1g. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	129	0.1%
Autistic Disorder on index date or year prior	2,064	2.1%
Any Substance-Related Disorders on index date or year prior	9,290	9.6%
Opioid-Related Disorders on index date or year prior	738	0.8%
Stimulant-Related Disorders on index date or year prior	815	0.8%
Cocaine-Related Disorders on index date or year prior	418	0.4%
Other Stimulant-Related Disorders on index date or year prior	533	0.5%
Alcohol-Related Disorders on index date or year prior	2,293	2.4%
Cannabis-Related Disorders on index date or year prior	3,617	3.7%
Tobacco-Related Disorders on index date or year prior	5,057	5.2%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	1,138	1.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	188	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	92	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	44	0.0%
Intentional Poisoning by Broad Category on index date or year prior	170	0.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	34,676	35.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	41,639	42.9%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	311	0.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	124	0.1%
At least One Encounter in the Emergency Department in Year Prior	17,393	17.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	3,789	3.9%
At least One Encounter in the Outpatient Care Setting in Year Prior	92,482	95.3%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	45,949	47.3%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	6,657	6.9%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	6,747	7.0%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	9,201	9.5%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	4,356	4.5%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	1,146	1.2%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	732	0.8%

Table 1g. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Stimulant Medication Patients of Age 18-25 Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	251	0.3%
Amphetamine Single-entity Products Extended Release Oral Solid	285	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	32	0.0%
Dextroamphetamine Single-entity Products Immediate Release	1,141	1.2%
Dextroamphetamine Single-entity Products Extended Release	734	0.8%
Amphetamine/Dextroamphetamine Combination Products Immediate	40,295	41.5%
Amphetamine/Dextroamphetamine Combination Products Extended Release	39,485	40.7%
Lisdexamfetamine Extended Release	25,743	26.5%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	10,934	11.3%
Methylphenidate Single-entity Products Extended Release Oral Solid	18,495	19.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	33	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	89	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	2,220	2.3%
Dexmethylphenidate Single-entity Products Extended Release	3,832	3.9%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	142	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	50,877	52.4%
Any ADHD Stimulant API Extended Release	73,500	75.7%
Atomoxetine Immediate Release	4,061	4.2%
Guanfacine Extended Release	1,539	1.6%
Viloxazine Extended Release	169	0.2%
Clonidine Extended Release	205	0.2%
Any ADHD Non-Stimulant API Extended Release	1,868	1.9%
Codeine	0	0.0%
Fentanyl	*****	*****
Hydrocodone	8,059	8.3%
Hydromorphone	153	0.2%
Morphine	64	0.1%
Oxycodone	5,045	5.2%
Oxymorphone	0	0.0%
Other C-II Opioid Analgesics	16	0.0%

Table 1g. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.0	14.6
Mean number of emergency room encounters	0.3	0.9
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	3.2	6.5
Mean number of filled prescriptions	12.2	13.7
Mean number of generics dispensed	5.5	4.2
Mean number of unique drug classes dispensed	5.2	3.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	24,914	25.7%
Diagnosis 2: F411 — Generalized Anxiety Disorder	18,839	19.4%
Diagnosis 3: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	15,575	16.0%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	15,102	15.6%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	10,886	11.2%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1h. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Patient Characteristics	Number	
Unique patients	21,768	
Healthcare Payor Status	Number	Percent
Commercial payor patients	20,739	95.3%
Medicare Members	1,029	4.7%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	22.0	2.2
	Number	Percent
Age		
18-25 years	21,768	100.0%
Sex		
Female	12,532	57.6%
Male	9,236	42.4%
Race ¹		
American Indian or Alaska Native	*****	*****
Asian	159	0.7%
Black or African American	286	1.3%
Multi-racial	542	2.5%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	17,813	81.8%
White	2,934	13.5%
Hispanic origin		
Yes	319	1.5%
No	1,624	7.5%
Unknown	19,825	91.1%
Year		
2020	6,011	27.6%
2021	12,107	55.6%
2022	3,650	16.8%
Census Bureau Region ²		
Invalid	233	1.1%
Midwest	5,505	25.3%
Northeast	3,075	14.1%
South	8,581	39.4%
West	4,361	20.0%
Missing	*****	*****
Other	*****	*****

Table 1h. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.0	1.2
Combined comorbidity score categories		
<=0	8,016	36.8%
1-2	11,868	54.5%
3-4	1,512	6.9%
5+	372	1.7%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	6,069	27.9%
ADHD Non-Stimulant Medication on index date or year prior	21,768	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	2,250	10.3%
Medication for Opioid-Related Disorders on index date or year prior	325	1.5%
Antidepressant Medication on index date or year prior	13,130	60.3%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	6,610	30.4%
Antipsychotic Medication on index date or year prior	4,539	20.9%
Mood Stabilizers on index date or year prior	3,310	15.2%
Cancer on index date or year prior	51	0.2%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	6,564	30.2%
ADHD on Index Date or year prior	12,972	59.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	738	3.4%
Narcolepsy on index date or year prior	54	0.2%
Binge-Eating Disorder on index date or year prior	173	0.8%
ADHD on Index Date or 30 days Prior	10,827	49.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	310	1.4%
Narcolepsy on index date or 30 days Prior	19	0.1%
Binge-Eating Disorder on index date or 30 days Prior	87	0.4%
Hypertension on index date or year prior	928	4.3%
Coronary artery disease on index date or year prior	101	0.5%
Cardiac arrhythmia on index date or year prior	1,750	8.0%
Cardiomyopathy on index date or year prior	54	0.2%
Cardiac structural abnormality on index date or year prior	141	0.6%
All other diseases of the circulatory system on index date or year prior	568	2.6%
Epilepsy or recurrent seizures on index date or year prior	488	2.2%
Other seizure or convulsions on index date or year prior	551	2.5%
Depression on index date or year prior	10,186	46.8%
Anxiety on index date or year prior	13,389	61.5%
Bipolar Disorder on index date or year prior	2,905	13.3%
Sleep Disorder on index date or year prior	3,165	14.5%
Psychotic Disorder on index date or year prior	1,079	5.0%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	2,388	11.0%

Table 1h. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	92	0.4%
Autistic Disorder on index date or year prior	1,205	5.5%
Any Substance-Related Disorders on index date or year prior	4,527	20.8%
Opioid-Related Disorders on index date or year prior	845	3.9%
Stimulant-Related Disorders on index date or year prior	1,061	4.9%
Cocaine-Related Disorders on index date or year prior	517	2.4%
Other Stimulant-Related Disorders on index date or year prior	787	3.6%
Alcohol-Related Disorders on index date or year prior	1,640	7.5%
Cannabis-Related Disorders on index date or year prior	2,383	10.9%
Tobacco-Related Disorders on index date or year prior	2,383	10.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	538	2.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	186	0.9%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	117	0.5%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	44	0.2%
Intentional Poisoning by Broad Category on index date or year prior	154	0.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	8,719	40.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	10,892	50.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	215	1.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	123	0.6%
At least One Encounter in the Emergency Department in Year Prior	5,630	25.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	2,307	10.6%
At least One Encounter in the Outpatient Care Setting in Year Prior	21,106	97.0%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	12,194	56.0%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	1,491	6.8%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	2,044	9.4%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	4,287	19.7%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	5,460	25.1%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	186	0.9%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	127	0.6%

Table 1h. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	26	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	34	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	162	0.7%
Dextroamphetamine Single-entity Products Extended Release	110	0.5%
Amphetamine/Dextroamphetamine Combination Products Immediate	3,379	15.5%
Amphetamine/Dextroamphetamine Combination Products Extended Release	3,597	16.5%
Lisdexamfetamine Extended Release	2,990	13.7%
Methamphetamine Single-entity Products Immediate Release	0	0.0%
Methylphenidate Single-entity Products Immediate Release	1,218	5.6%
Methylphenidate Single-entity Products Extended Release Oral Solid	2,141	9.8%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	16	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	291	1.3%
Dexmethylphenidate Single-entity Products Extended Release	500	2.3%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	41	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	4,644	21.3%
Any ADHD Stimulant API Extended Release	7,502	34.5%
Atomoxetine Immediate Release	17,139	78.7%
Guanfacine Extended Release	4,737	21.8%
Viloxazine Extended Release	171	0.8%
Clonidine Extended Release	951	4.4%
Any ADHD Non-Stimulant API Extended Release	5,724	26.3%
Codeine	*****	*****
Fentanyl	11	0.1%
Hydrocodone	1,834	8.4%
Hydromorphone	58	0.3%
Morphine	28	0.1%
Oxycodone	1,271	5.8%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	*****	*****

Table 1h. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	17.4	23.0
Mean number of emergency room encounters	0.5	1.5
Mean number of inpatient hospital encounters	0.2	0.9
Mean number of non-acute institutional encounters	0.1	0.4
Mean number of other ambulatory encounters	4.9	10.9
Mean number of filled prescriptions	19.2	19.3
Mean number of generics dispensed	7.3	5.2
Mean number of unique drug classes dispensed	6.8	4.6
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F411 — Generalized Anxiety Disorder	6,064	27.9%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	4,400	20.2%
Diagnosis 3: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	3,444	15.8%
Diagnosis 4: F419 — Anxiety Disorder Unspecified	3,365	15.5%
Diagnosis 5: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	3,249	14.9%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

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

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Patient Characteristics	Number/Mean	
Unique patients	37,126	
Healthcare Payor Status	Number	Percent
Commercial payor patients	35,693	96.1%
Medicare Members	1,433	3.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	22.5	2.1
	Number	Percent
Age		
18-25 years	37,126	100.0%
Sex		
Female	21,574	58.1%
Male	15,552	41.9%
Race ¹		
American Indian or Alaska Native	*****	*****
Asian	150	0.4%
Black or African American	663	1.8%
Multi-racial	541	1.5%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	32,614	87.8%
White	3,123	8.4%
Hispanic origin		
Yes	453	1.2%
No	1,917	5.2%
Unknown	34,756	93.6%
Year		
2020	14,683	39.5%
2021	18,696	50.4%
2022	3,747	10.1%
Census Bureau Region ²		
Invalid	188	0.5%
Midwest	10,522	28.3%
Northeast	2,653	7.2%
South	15,659	42.2%
West	8,072	21.7%
Missing	*****	*****
Other	*****	*****

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.8	1.5
Combined comorbidity score categories		
<=0	21,913	59.0%
1-2	12,092	32.6%
3-4	1,896	5.1%
5+	1,225	3.3%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	3,190	8.6%
ADHD Non-Stimulant Medication on index date or year prior	384	1.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	37,126	100.0%
Medication for Opioid-Related Disorders on index date or year prior	79	0.2%
Antidepressant Medication on index date or year prior	9,599	25.9%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	6,696	18.0%
Antipsychotic Medication on index date or year prior	2,052	5.5%
Mood Stabilizers on index date or year prior	1,458	3.9%
Cancer on index date or year prior	382	1.0%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	21,171	57.0%
ADHD on Index Date or year prior	3,323	9.0%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	272	0.7%
Narcolepsy on index date or year prior	65	0.2%
Binge-Eating Disorder on index date or year prior	83	0.2%
ADHD on Index Date or 30 days Prior	1,329	3.6%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	80	0.2%
Narcolepsy on index date or 30 days Prior	22	0.1%
Binge-Eating Disorder on index date or 30 days Prior	32	0.1%
Hypertension on index date or year prior	2,119	5.7%
Coronary artery disease on index date or year prior	347	0.9%
Cardiac arrhythmia on index date or year prior	3,306	8.9%
Cardiomyopathy on index date or year prior	173	0.5%
Cardiac structural abnormality on index date or year prior	345	0.9%
All other diseases of the circulatory system on index date or year prior	1,716	4.6%
Epilepsy or recurrent seizures on index date or year prior	765	2.1%
Other seizure or convulsions on index date or year prior	793	2.1%
Depression on index date or year prior	6,830	18.4%
Anxiety on index date or year prior	9,897	26.7%
Bipolar Disorder on index date or year prior	1,305	3.5%
Sleep Disorder on index date or year prior	4,282	11.5%
Psychotic Disorder on index date or year prior	399	1.1%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	1,309	3.5%
Manic Episode on index date or year prior	23	0.1%
Autistic Disorder on index date or year prior	390	1.1%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	6,287	16.9%
Opioid-Related Disorders on index date or year prior	505	1.4%
Stimulant-Related Disorders on index date or year prior	303	0.8%
Cocaine-Related Disorders on index date or year prior	174	0.5%
Other Stimulant-Related Disorders on index date or year prior	166	0.4%
Alcohol-Related Disorders on index date or year prior	965	2.6%
Cannabis-Related Disorders on index date or year prior	1,416	3.8%
Tobacco-Related Disorders on index date or year prior	4,844	13.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	802	2.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	62	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	34	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	12	0.0%
Intentional Poisoning by Broad Category on index date or year prior	169	0.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	33,699	90.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	35,751	96.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	160	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	49	0.1%
At least One Encounter in the Emergency Department in Year Prior	14,859	40.0%
At least One Encounter in the Inpatient Care Setting in Year Prior	7,315	19.7%
At least One Encounter in the Outpatient Care Setting in Year Prior	36,032	97.1%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	6,225	16.8%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	1,475	4.0%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	853	2.3%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	1,182	3.2%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	1,654	4.5%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	185	0.5%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	1,622	4.4%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	181	0.5%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	*****	*****
Amphetamine Single-entity Products Extended Release Oral Solid	*****	*****
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	58	0.2%
Dextroamphetamine Single-entity Products Extended Release	34	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate	1,722	4.6%
Amphetamine/Dextroamphetamine Combination Products Extended Release	1,520	4.1%
Lisdexamfetamine Extended Release	1,192	3.2%
Methamphetamine Single-entity Products Immediate Release	0	0.0%
Methylphenidate Single-entity Products Immediate Release	363	1.0%
Methylphenidate Single-entity Products Extended Release Oral Solid	606	1.6%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	91	0.2%
Dexmethylphenidate Single-entity Products Extended Release	142	0.4%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	*****	*****
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	2,127	5.7%
Any ADHD Stimulant API Extended Release	3,002	8.1%
Atomoxetine Immediate Release	436	1.2%
Guanfacine Extended Release	147	0.4%
Viloxazine Extended Release	15	0.0%
Clonidine Extended Release	97	0.3%
Any ADHD Non-Stimulant API Extended Release	253	0.7%
Codeine	14	0.0%
Fentanyl	78	0.2%
Hydrocodone	21,446	57.8%
Hydromorphone	792	2.1%
Morphine	368	1.0%
Oxycodone	19,460	52.4%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	131	0.4%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	15.3	20.3
Mean number of emergency room encounters	0.9	2.2
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.2	10.9
Mean number of filled prescriptions	14.8	17.4
Mean number of generics dispensed	7.3	5.1
Mean number of unique drug classes dispensed	6.5	4.3
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: Z20822 — Contact With And (Suspected) Exposure To Covid-19	6,673	18.0%
Diagnosis 2: Z01818 — Encounter For Other Preprocedural Examination	6,027	16.2%
Diagnosis 3: G8918 — Other Acute Postprocedural Pain	5,402	14.6%
Diagnosis 4: Z20828 — Contact With And Exposure Other Viral Communicable	4,411	11.9%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	3,719	10.0%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1j. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	159,433	
Healthcare Payor Status	Number	Percent
Commercial payor patients	148,479	93.1%
Medicare Members	10,954	6.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	34.8	5.2
Age	Number	Percent
26-29 years	36,186	22.7%
30-39 years	90,523	56.8%
40-44 years	32,724	20.5%
Sex		
Female	91,040	57.1%
Male	68,393	42.9%
Race ¹		
American Indian or Alaska Native	206	0.1%
Asian	1,209	0.8%
Black or African American	2,041	1.3%
Multi-racial	3,346	2.1%
Native Hawaiian or Other Pacific Islander	53	0.0%
Unknown	122,640	76.9%
White	29,938	18.8%
Hispanic origin		
Yes	2,731	1.7%
No	16,729	10.5%
Unknown	139,973	87.8%
Year		
2020	46,935	29.4%
2021	86,053	54.0%
2022	26,445	16.6%
Census Bureau Region ²		
Invalid	2,345	1.5%
Midwest	35,567	22.3%
Northeast	22,576	14.2%
South	64,286	40.3%
West	34,608	21.7%
Missing	38	0.0%
Other	13	0.0%

Table 1j. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation
Combined comorbidity score ⁴	0.7	1.1
Combined comorbidity score categories		
<=0	83,042	52.1%
1-2	67,319	42.2%
3-4	6,892	4.3%
5+	2,180	1.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	159,433	100.0%
ADHD Non-Stimulant Medication on index date or year prior	9,119	5.7%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	23,358	14.7%
Medication for Opioid-Related Disorders on index date or year prior	2,310	1.4%
Antidepressant Medication on index date or year prior	79,089	49.6%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	47,865	30.0%
Antipsychotic Medication on index date or year prior	15,721	9.9%
Mood Stabilizers on index date or year prior	12,461	7.8%
Cancer on index date or year prior	1,484	0.9%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	63,259	39.7%
ADHD on Index Date or year prior	91,930	57.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,470	0.9%
Narcolepsy on index date or year prior	1,191	0.7%
Binge-Eating Disorder on index date or year prior	3,459	2.2%
ADHD on Index Date or 30 days Prior	81,521	51.1%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	630	0.4%
Narcolepsy on index date or 30 days Prior	750	0.5%
Binge-Eating Disorder on index date or 30 days Prior	2,925	1.8%
Hypertension on index date or year prior	17,656	11.1%
Coronary artery disease on index date or year prior	1,123	0.7%
Cardiac arrhythmia on index date or year prior	7,639	4.8%
Cardiomyopathy on index date or year prior	318	0.2%
Cardiac structural abnormality on index date or year prior	578	0.4%
All other diseases of the circulatory system on index date or year prior	4,319	2.7%
Epilepsy or recurrent seizures on index date or year prior	1,939	1.2%
Other seizure or convulsions on index date or year prior	1,867	1.2%
Depression on index date or year prior	55,831	35.0%
Anxiety on index date or year prior	77,711	48.7%
Bipolar Disorder on index date or year prior	11,723	7.4%
Sleep Disorder on index date or year prior	30,406	19.1%
Psychotic Disorder on index date or year prior	2,945	1.8%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	11,483	7.2%

Table 1j. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	262	0.2%
Autistic Disorder on index date or year prior	1,391	0.9%
Any Substance-Related Disorders on index date or year prior	25,041	15.7%
Opioid-Related Disorders on index date or year prior	4,521	2.8%
Stimulant-Related Disorders on index date or year prior	2,244	1.4%
Cocaine-Related Disorders on index date or year prior	923	0.6%
Other Stimulant-Related Disorders on index date or year prior	1,593	1.0%
Alcohol-Related Disorders on index date or year prior	5,682	3.6%
Cannabis-Related Disorders on index date or year prior	3,965	2.5%
Tobacco-Related Disorders on index date or year prior	17,388	10.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	3,875	2.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	318	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	199	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	69	0.0%
Intentional Poisoning by Broad Category on index date or year prior	399	0.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	64,197	40.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	75,091	47.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	481	0.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	228	0.1%
At least One Encounter in the Emergency Department in Year Prior	29,255	18.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	11,679	7.3%
At least One Encounter in the Outpatient Care Setting in Year Prior	153,508	96.3%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	81,951	51.4%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	27,472	17.2%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	17,406	10.9%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	17,085	10.7%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	7,217	4.5%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	8,746	5.5%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	6,154	3.9%

Table 1j. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Stimulant Medication Patients of Age 26-44 Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	264	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	411	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	15	0.0%
Dextroamphetamine Single-entity Products Immediate Release	2,199	1.4%
Dextroamphetamine Single-entity Products Extended Release	1,642	1.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	83,698	52.5%
Amphetamine/Dextroamphetamine Combination Products Extended Release	66,273	41.6%
Lisdexamfetamine Extended Release	38,306	24.0%
Methamphetamine Single-entity Products Immediate Release	14	0.0%
Methylphenidate Single-entity Products Immediate Release	17,242	10.8%
Methylphenidate Single-entity Products Extended Release Oral Solid	20,914	13.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	16	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	84	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	2,070	1.3%
Dexmethylphenidate Single-entity Products Extended Release	3,185	2.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	330	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	98,284	61.6%
Any ADHD Stimulant API Extended Release	107,764	67.6%
Atomoxetine Immediate Release	6,183	3.9%
Guanfacine Extended Release	1,995	1.3%
Viloxazine Extended Release	226	0.1%
Clonidine Extended Release	339	0.2%
Any ADHD Non-Stimulant API Extended Release	2,486	1.6%
Codeine	15	0.0%
Fentanyl	190	0.1%
Hydrocodone	17,523	11.0%
Hydromorphone	916	0.6%
Morphine	573	0.4%
Oxycodone	14,968	9.4%
Oxymorphone	26	0.0%
Other C-II Opioid Analgesics	246	0.2%

Table 1j. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	14.2	16.6
Mean number of emergency room encounters	0.3	1.2
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.2	8.3
Mean number of filled prescriptions	18.2	21.5
Mean number of generics dispensed	6.8	5.3
Mean number of unique drug classes dispensed	6.4	4.7
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	37,002	23.2%
Diagnosis 2: F411 — Generalized Anxiety Disorder	29,958	18.8%
Diagnosis 3: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	25,075	15.7%
Diagnosis 4: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	20,634	12.9%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	18,595	11.7%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

Table 1k. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	37,759	
Healthcare Payor Status	Number	Percent
Commercial payor patients	29,545	78.3%
Medicare Members	8,214	21.8%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	35.3	5.2
	Number	Percent
Age		
26-29 years	7,670	20.3%
30-39 years	21,308	56.4%
40-44 years	8,781	23.3%
Sex		
Female	20,784	55.0%
Male	16,975	45.0%
Race ¹		
American Indian or Alaska Native	*****	*****
Asian	317	0.8%
Black or African American	1,579	4.2%
Multi-racial	664	1.8%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	24,651	65.3%
White	10,404	27.6%
Hispanic origin		
Yes	936	2.5%
No	9,129	24.2%
Unknown	27,694	73.3%
Year		
2020	10,870	28.8%
2021	20,520	54.3%
2022	6,369	16.9%
Census Bureau Region ²		
Invalid	*****	*****
Midwest	9,287	24.6%
Northeast	5,324	14.1%
South	15,127	40.1%
West	7,517	19.9%
Missing	*****	*****
Other	*****	*****

Table 1k. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation
Combined comorbidity score ⁴	1.4	1.8
Combined comorbidity score categories		
<=0	13,242	35.1%
1-2	18,488	49.0%
3-4	3,659	9.7%
5+	2,370	6.3%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	9,886	26.2%
ADHD Non-Stimulant Medication on index date or year prior	37,759	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	6,966	18.4%
Medication for Opioid-Related Disorders on index date or year prior	1,403	3.7%
Antidepressant Medication on index date or year prior	24,165	64.0%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	15,795	41.8%
Antipsychotic Medication on index date or year prior	9,112	24.1%
Mood Stabilizers on index date or year prior	6,464	17.1%
Cancer on index date or year prior	367	1.0%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	17,865	47.3%
ADHD on Index Date or year prior	20,065	53.1%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,003	2.7%
Narcolepsy on index date or year prior	145	0.4%
Binge-Eating Disorder on index date or year prior	299	0.8%
ADHD on Index Date or 30 days Prior	16,820	44.5%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	409	1.1%
Narcolepsy on index date or 30 days Prior	56	0.1%
Binge-Eating Disorder on index date or 30 days Prior	158	0.4%
Hypertension on index date or year prior	8,250	21.8%
Coronary artery disease on index date or year prior	1,207	3.2%
Cardiac arrhythmia on index date or year prior	4,312	11.4%
Cardiomyopathy on index date or year prior	422	1.1%
Cardiac structural abnormality on index date or year prior	281	0.7%
All other diseases of the circulatory system on index date or year prior	2,190	5.8%
Epilepsy or recurrent seizures on index date or year prior	1,447	3.8%
Other seizure or convulsions on index date or year prior	1,417	3.8%
Depression on index date or year prior	17,705	46.9%
Anxiety on index date or year prior	23,439	62.1%
Bipolar Disorder on index date or year prior	6,579	17.4%
Sleep Disorder on index date or year prior	10,155	26.9%
Psychotic Disorder on index date or year prior	3,090	8.2%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	5,181	13.7%

Table 1k. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	238	0.6%
Autistic Disorder on index date or year prior	1,064	2.8%
Any Substance-Related Disorders on index date or year prior	11,957	31.7%
Opioid-Related Disorders on index date or year prior	3,129	8.3%
Stimulant-Related Disorders on index date or year prior	2,649	7.0%
Cocaine-Related Disorders on index date or year prior	1,059	2.8%
Other Stimulant-Related Disorders on index date or year prior	2,082	5.5%
Alcohol-Related Disorders on index date or year prior	3,776	10.0%
Cannabis-Related Disorders on index date or year prior	3,132	8.3%
Tobacco-Related Disorders on index date or year prior	8,295	22.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	2,068	5.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	337	0.9%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	227	0.6%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	86	0.2%
Intentional Poisoning by Broad Category on index date or year prior	363	1.0%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	17,523	46.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	20,841	55.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	424	1.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	211	0.6%
At least One Encounter in the Emergency Department in Year Prior	11,688	31.0%
At least One Encounter in the Inpatient Care Setting in Year Prior	5,302	14.0%
At least One Encounter in the Outpatient Care Setting in Year Prior	36,880	97.7%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	22,562	59.8%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	6,238	16.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	5,265	13.9%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	8,488	22.5%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	9,976	26.4%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	2,469	6.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	1,868	4.9%

Table 1k. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	37	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	55	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	324	0.9%
Dextroamphetamine Single-entity Products Extended Release	257	0.7%
Amphetamine/Dextroamphetamine Combination Products Immediate	7,257	19.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	6,670	17.7%
Lisdexamfetamine Extended Release	4,890	13.0%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	2,053	5.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	2,988	7.9%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	28	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	378	1.0%
Dexmethylphenidate Single-entity Products Extended Release	609	1.6%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	74	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	9,092	24.1%
Any ADHD Stimulant API Extended Release	12,119	32.1%
Atomoxetine Immediate Release	29,498	78.1%
Guanfacine Extended Release	6,047	16.0%
Viloxazine Extended Release	261	0.7%
Clonidine Extended Release	3,784	10.0%
Any ADHD Non-Stimulant API Extended Release	9,888	26.2%
Codeine	*****	*****
Fentanyl	102	0.3%
Hydrocodone	4,933	13.1%
Hydromorphone	402	1.1%
Morphine	247	0.7%
Oxycodone	4,362	11.6%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	106	0.3%

Table 1k. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	23.6	33.4
Mean number of emergency room encounters	0.9	3.0
Mean number of inpatient hospital encounters	0.3	1.2
Mean number of non-acute institutional encounters	0.1	0.6
Mean number of other ambulatory encounters	7.6	15.2
Mean number of filled prescriptions	31.4	31.3
Mean number of generics dispensed	9.6	6.7
Mean number of unique drug classes dispensed	8.9	5.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F411 — Generalized Anxiety Disorder	9,406	24.9%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	6,955	18.4%
Diagnosis 3: F419 — Anxiety Disorder Unspecified	6,084	16.1%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	5,635	14.9%
Diagnosis 5: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	4,462	11.8%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1I. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	209,532	
Healthcare Payor Status	Number	Percent
Commercial payor patients	173,813	83.0%
Medicare Members	35,719	17.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	37.3	5.1
Age	Number	Percent
26-29 years	23,474	11.2%
30-39 years	108,874	52.0%
40-44 years	77,184	36.8%
Sex		
Female	125,580	59.9%
Male	83,952	40.1%
Race ¹		
American Indian or Alaska Native	700	0.3%
Asian	1,539	0.7%
Black or African American	11,005	5.3%
Multi-racial	2,662	1.3%
Native Hawaiian or Other Pacific Islander	81	0.0%
Unknown	153,893	73.4%
White	39,652	18.9%
Hispanic origin		
Yes	4,848	2.3%
No	38,962	18.6%
Unknown	165,722	79.1%
Year		
2020	82,241	39.2%
2021	104,596	49.9%
2022	22,695	10.8%
Census Bureau Region ²		
Invalid	1,271	0.6%
Midwest	54,713	26.1%
Northeast	16,550	7.9%
South	91,319	43.6%
West	45,605	21.8%
Missing	36	0.0%
Other	38	0.0%

Table 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.3	2.1
Combined comorbidity score categories		
<=0	105,711	50.5%
1-2	69,825	33.3%
3-4	16,918	8.1%
5+	17,078	8.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	15,266	7.3%
ADHD Non-Stimulant Medication on index date or year prior	1,754	0.8%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	209,532	100.0%
Medication for Opioid-Related Disorders on index date or year prior	1,763	0.8%
Antidepressant Medication on index date or year prior	73,860	35.2%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	63,210	30.2%
Antipsychotic Medication on index date or year prior	19,631	9.4%
Mood Stabilizers on index date or year prior	12,494	6.0%
Cancer on index date or year prior	8,091	3.9%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	144,877	69.1%
ADHD on Index Date or year prior	13,876	6.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,523	0.7%
Narcolepsy on index date or year prior	598	0.3%
Binge-Eating Disorder on index date or year prior	636	0.3%
ADHD on Index Date or 30 days Prior	5,964	2.8%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	417	0.2%
Narcolepsy on index date or 30 days Prior	200	0.1%
Binge-Eating Disorder on index date or 30 days Prior	219	0.1%
Hypertension on index date or year prior	53,662	25.6%
Coronary artery disease on index date or year prior	8,211	3.9%
Cardiac arrhythmia on index date or year prior	24,510	11.7%
Cardiomyopathy on index date or year prior	3,049	1.5%
Cardiac structural abnormality on index date or year prior	2,132	1.0%
All other diseases of the circulatory system on index date or year prior	18,048	8.6%
Epilepsy or recurrent seizures on index date or year prior	7,469	3.6%
Other seizure or convulsions on index date or year prior	6,845	3.3%
Depression on index date or year prior	48,624	23.2%
Anxiety on index date or year prior	69,950	33.4%
Bipolar Disorder on index date or year prior	12,961	6.2%
Sleep Disorder on index date or year prior	47,191	22.5%
Psychotic Disorder on index date or year prior	5,434	2.6%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	11,069	5.3%
Manic Episode on index date or year prior	255	0.1%
Autistic Disorder on index date or year prior	1,065	0.5%

Table 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	61,624	29.4%
Opioid-Related Disorders on index date or year prior	7,516	3.6%
Stimulant-Related Disorders on index date or year prior	2,968	1.4%
Cocaine-Related Disorders on index date or year prior	1,337	0.6%
Other Stimulant-Related Disorders on index date or year prior	1,973	0.9%
Alcohol-Related Disorders on index date or year prior	7,712	3.7%
Cannabis-Related Disorders on index date or year prior	6,738	3.2%
Tobacco-Related Disorders on index date or year prior	53,679	25.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	11,477	5.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	586	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	345	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	123	0.1%
Intentional Poisoning by Broad Category on index date or year prior	1,202	0.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	194,705	92.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	203,222	97.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,220	0.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	367	0.2%
At least One Encounter in the Emergency Department in Year Prior	86,512	41.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	52,631	25.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	206,417	98.5%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	57,911	27.6%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	22,606	10.8%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	12,593	6.0%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	14,879	7.1%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	11,364	5.4%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	1,303	0.6%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	10,963	5.2%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	1,220	0.6%

Table 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	38	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	53	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	0	0.0%
Dextroamphetamine Single-entity Products Immediate Release	293	0.1%
Dextroamphetamine Single-entity Products Extended Release	188	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate	10,846	5.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	6,733	3.2%
Lisdexamfetamine Extended Release	4,668	2.2%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	1,828	0.9%
Methylphenidate Single-entity Products Extended Release Oral Solid	1,762	0.8%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	15	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	201	0.1%
Dexmethylphenidate Single-entity Products Extended Release	326	0.2%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	50	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	12,506	6.0%
Any ADHD Stimulant API Extended Release	11,728	5.6%
Atomoxetine Immediate Release	2,049	1.0%
Guanfacine Extended Release	425	0.2%
Viloxazine Extended Release	74	0.0%
Clonidine Extended Release	711	0.3%
Any ADHD Non-Stimulant API Extended Release	1,191	0.6%
Codeine	98	0.0%
Fentanyl	1,336	0.6%
Hydrocodone	126,707	60.5%
Hydromorphone	7,532	3.6%
Morphine	4,342	2.1%
Oxycodone	114,998	54.9%
Oxymorphone	52	0.0%
Other C-II Opioid Analgesics	1,483	0.7%

Table 1I. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	20.8	28.3
Mean number of emergency room encounters	1.1	2.8
Mean number of inpatient hospital encounters	0.4	1.0
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	6.2	13.6
Mean number of filled prescriptions	25.3	28.0
Mean number of generics dispensed	9.5	6.3
Mean number of unique drug classes dispensed	8.4	5.3
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: Z01818 — Encounter For Other Preprocedural Examination	36,083	17.2%
Diagnosis 2: Z20822 — Contact With And (Suspected) Exposure To Covid-19	34,874	16.6%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	32,622	15.6%
Diagnosis 4: I10 — Essential Primary Hypertension	30,423	14.5%
Diagnosis 5: Z20828 — Contact With And Exposure Other Viral Communicable	22,055	10.5%
Diseases		

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 45-64 Years		
Patient Characteristics	Number	
Unique patients	74,684	
Healthcare Payor Status	Number	Percent
Commercial payor patients	61,536	82.4%
Medicare Members	13,148	17.6%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	53.3	5.4
	Number	Percent
Age		
45-54 years	47,205	63.2%
55-64 years	27,479	36.8%
Sex		
Female	47,657	63.8%
Male	27,027	36.2%
Race ¹		
American Indian or Alaska Native	163	0.2%
Asian	289	0.4%
Black or African American	1,441	1.9%
Multi-racial	1,073	1.4%
Native Hawaiian or Other Pacific Islander	29	0.0%
Unknown	48,669	65.2%
White	23,020	30.8%
Hispanic origin		
Yes	870	1.2%
No	18,212	24.4%
Unknown	55,602	74.4%
Year		
2020	24,854	33.3%
2021	38,846	52.0%
2022	10,984	14.7%
Census Bureau Region ²		
Invalid	648	0.9%
Midwest	16,353	21.9%
Northeast	10,525	14.1%
South	32,718	43.8%
West	14,415	19.3%
Missing	12	0.0%
Other	13	0.0%

Table 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 45-64 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.3	2.0
Combined comorbidity score categories		
<=0	31,528	42.2%
1-2	31,135	41.7%
3-4	6,968	9.3%
5+	5,053	6.8%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	74,684	100.0%
ADHD Non-Stimulant Medication on index date or year prior	3,548	4.8%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	19,817	26.5%
Medication for Opioid-Related Disorders on index date or year prior	1,484	2.0%
Antidepressant Medication on index date or year prior	46,377	62.1%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	33,226	44.5%
Antipsychotic Medication on index date or year prior	12,466	16.7%
Mood Stabilizers on index date or year prior	8,353	11.2%
Cancer on index date or year prior	4,045	5.4%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	46,418	62.2%
ADHD on Index Date or year prior	33,774	45.2%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	657	0.9%
Narcolepsy on index date or year prior	1,052	1.4%
Binge-Eating Disorder on index date or year prior	2,238	3.0%
ADHD on Index Date or 30 days Prior	28,474	38.1%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	258	0.3%
Narcolepsy on index date or 30 days Prior	638	0.9%
Binge-Eating Disorder on index date or 30 days Prior	1,931	2.6%
Hypertension on index date or year prior	27,769	37.2%
Coronary artery disease on index date or year prior	4,811	6.4%
Cardiac arrhythmia on index date or year prior	6,559	8.8%
Cardiomyopathy on index date or year prior	774	1.0%
Cardiac structural abnormality on index date or year prior	452	0.6%
All other diseases of the circulatory system on index date or year prior	5,525	7.4%
Epilepsy or recurrent seizures on index date or year prior	1,655	2.2%
Other seizure or convulsions on index date or year prior	1,604	2.1%
Depression on index date or year prior	32,624	43.7%
Anxiety on index date or year prior	37,197	49.8%
Bipolar Disorder on index date or year prior	8,007	10.7%
Sleep Disorder on index date or year prior	27,203	36.4%
Psychotic Disorder on index date or year prior	1,957	2.6%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	6,402	8.6%
Manic Episode on index date or year prior	175	0.2%

Table 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 45-64 Years		
Health Characteristics	Number	Percent
Autistic Disorder on index date or year prior	238	0.3%
Any Substance-Related Disorders on index date or year prior	18,749	25.1%
Opioid-Related Disorders on index date or year prior	4,255	5.7%
Stimulant-Related Disorders on index date or year prior	1,171	1.6%
Cocaine-Related Disorders on index date or year prior	508	0.7%
Other Stimulant-Related Disorders on index date or year prior	774	1.0%
Alcohol-Related Disorders on index date or year prior	3,442	4.6%
Cannabis-Related Disorders on index date or year prior	1,373	1.8%
Tobacco-Related Disorders on index date or year prior	14,189	19.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	3,388	4.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	217	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	135	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	40	0.1%
Intentional Poisoning by Broad Category on index date or year prior	510	0.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	38,237	51.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	43,995	58.9%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	310	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	134	0.2%
At least One Encounter in the Emergency Department in Year Prior	17,604	23.6%
At least One Encounter in the Inpatient Care Setting in Year Prior	6,387	8.6%
At least One Encounter in the Outpatient Care Setting in Year Prior	73,656	98.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	46,791	62.7%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	21,014	28.1%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	12,460	16.7%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	12,307	16.5%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	2,775	3.7%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	13,391	17.9%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	10,585	14.2%

Table 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Stimulant Medication Patients of Age 45-64 Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	123	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	179	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	13	0.0%
Dextroamphetamine Single-entity Products Immediate Release	1,078	1.4%
Dextroamphetamine Single-entity Products Extended Release	684	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate	35,796	47.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	23,109	30.9%
Lisdexamfetamine Extended Release	16,191	21.7%
Methamphetamine Single-entity Products Immediate Release	19	0.0%
Methylphenidate Single-entity Products Immediate Release	13,079	17.5%
Methylphenidate Single-entity Products Extended Release Oral Solid	8,542	11.4%
Methylphenidate Single-entity Products Extended Release Oral Liquid	11	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	42	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	1,057	1.4%
Dexmethylphenidate Single-entity Products Extended Release	1,328	1.8%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	125	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	47,819	64.0%
Any ADHD Stimulant API Extended Release	42,729	57.2%
Atomoxetine Immediate Release	2,594	3.5%
Guanfacine Extended Release	679	0.9%
Viloxazine Extended Release	105	0.1%
Clonidine Extended Release	205	0.3%
Any ADHD Non-Stimulant API Extended Release	973	1.3%
Codeine	13	0.0%
Fentanyl	571	0.8%
Hydrocodone	14,651	19.6%
Hydromorphone	1,347	1.8%
Morphine	1,395	1.9%
Oxycodone	13,361	17.9%
Oxymorphone	50	0.1%
Other C-II Opioid Analgesics	569	0.8%

Table 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 45-64 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	20.2	20.5
Mean number of emergency room encounters	0.5	1.6
Mean number of inpatient hospital encounters	0.1	0.6
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	5.7	11.9
Mean number of filled prescriptions	35.2	32.8
Mean number of generics dispensed	10.5	6.9
Mean number of unique drug classes dispensed	9.7	6.0
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	13,304	17.8%
Diagnosis 2: F411 — Generalized Anxiety Disorder	11,524	15.4%
Diagnosis 3: I10 — Essential Primary Hypertension	11,456	15.3%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	8,863	11.9%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	8,512	11.4%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

Table 1n. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 45-64 Years		
Patient Characteristics	Number	
Unique patients	27,377	
Healthcare Payor Status	Number	Percent
Commercial payor patients	16,852	61.6%
Medicare Members	10,525	38.4%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	54.4	5.6
	Number	Percent
Age		
45-54 years	14,812	54.1%
55-64 years	12,565	45.9%
Sex		
Female	16,179	59.1%
Male	11,198	40.9%
Race ¹		
American Indian or Alaska Native	158	0.6%
Asian	207	0.8%
Black or African American	3,174	11.6%
Multi-racial	264	1.0%
Native Hawaiian or Other Pacific Islander	13	0.0%
Unknown	12,727	46.5%
White	10,834	39.6%
Hispanic origin		
Yes	665	2.4%
No	12,585	46.0%
Unknown	14,127	51.6%
Year		
2020	9,237	33.7%
2021	14,241	52.0%
2022	3,899	14.2%
Census Bureau Region ²		
Invalid	*****	*****
Midwest	6,260	22.9%
Northeast	3,559	13.0%
South	12,377	45.2%
West	5,011	18.3%
Missing	*****	*****
Other	*****	*****

Table 1n. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 45-64 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.8	3.1
Combined comorbidity score categories		
<=0	7,131	26.0%
1-2	9,979	36.5%
3-4	3,991	14.6%
5+	6,276	22.9%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	5,155	18.8%
ADHD Non-Stimulant Medication on index date or year prior	27,377	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	9,598	35.1%
Medication for Opioid-Related Disorders on index date or year prior	939	3.4%
Antidepressant Medication on index date or year prior	17,818	65.1%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	13,026	47.6%
Antipsychotic Medication on index date or year prior	6,846	25.0%
Mood Stabilizers on index date or year prior	4,378	16.0%
Cancer on index date or year prior	1,397	5.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	19,715	72.0%
ADHD on Index Date or year prior	8,718	31.8%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	604	2.2%
Narcolepsy on index date or year prior	119	0.4%
Binge-Eating Disorder on index date or year prior	162	0.6%
ADHD on Index Date or 30 days Prior	7,032	25.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	197	0.7%
Narcolepsy on index date or 30 days Prior	52	0.2%
Binge-Eating Disorder on index date or 30 days Prior	88	0.3%
Hypertension on index date or year prior	17,005	62.1%
Coronary artery disease on index date or year prior	5,362	19.6%
Cardiac arrhythmia on index date or year prior	5,519	20.2%
Cardiomyopathy on index date or year prior	1,217	4.4%
Cardiac structural abnormality on index date or year prior	296	1.1%
All other diseases of the circulatory system on index date or year prior	4,507	16.5%
Epilepsy or recurrent seizures on index date or year prior	1,577	5.8%
Other seizure or convulsions on index date or year prior	1,580	5.8%
Depression on index date or year prior	13,132	48.0%
Anxiety on index date or year prior	15,023	54.9%
Bipolar Disorder on index date or year prior	4,723	17.3%
Sleep Disorder on index date or year prior	12,322	45.0%
Psychotic Disorder on index date or year prior	2,266	8.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	3,274	12.0%
Manic Episode on index date or year prior	135	0.5%

Table 1n. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 45-64 Years		
Health Characteristics	Number	Percent
Autistic Disorder on index date or year prior	215	0.8%
Any Substance-Related Disorders on index date or year prior	11,714	42.8%
Opioid-Related Disorders on index date or year prior	3,299	12.1%
Stimulant-Related Disorders on index date or year prior	1,501	5.5%
Cocaine-Related Disorders on index date or year prior	740	2.7%
Other Stimulant-Related Disorders on index date or year prior	964	3.5%
Alcohol-Related Disorders on index date or year prior	2,753	10.1%
Cannabis-Related Disorders on index date or year prior	1,384	5.1%
Tobacco-Related Disorders on index date or year prior	9,187	33.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	2,550	9.3%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	307	1.1%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	188	0.7%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	65	0.2%
Intentional Poisoning by Broad Category on index date or year prior	409	1.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	18,513	67.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	20,265	74.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	390	1.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	136	0.5%
At least One Encounter in the Emergency Department in Year Prior	11,365	41.5%
At least One Encounter in the Inpatient Care Setting in Year Prior	7,054	25.8%
At least One Encounter in the Outpatient Care Setting in Year Prior	27,203	99.4%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	16,994	62.1%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	6,397	23.4%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	4,702	17.2%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	6,346	23.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	4,421	16.1%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	6,624	24.2%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	5,365	19.6%

Table 1n. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 45-64 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	11	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	18	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	151	0.6%
Dextroamphetamine Single-entity Products Extended Release	116	0.4%
Amphetamine/Dextroamphetamine Combination Products Immediate	3,028	11.1%
Amphetamine/Dextroamphetamine Combination Products Extended Release	2,313	8.4%
Lisdexamfetamine Extended Release	1,674	6.1%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	1,016	3.7%
Methylphenidate Single-entity Products Extended Release Oral Solid	1,050	3.8%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	146	0.5%
Dexmethylphenidate Single-entity Products Extended Release	213	0.8%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	20	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	3,931	14.4%
Any ADHD Stimulant API Extended Release	4,383	16.0%
Atomoxetine Immediate Release	14,157	51.7%
Guanfacine Extended Release	2,848	10.4%
Viloxazine Extended Release	133	0.5%
Clonidine Extended Release	10,998	40.2%
Any ADHD Non-Stimulant API Extended Release	13,900	50.8%
Codeine	*****	*****
Fentanyl	348	1.3%
Hydrocodone	6,530	23.9%
Hydromorphone	694	2.5%
Morphine	774	2.8%
Oxycodone	6,065	22.2%
Oxymorphone	38	0.1%
Other C-II Opioid Analgesics	287	1.0%

Table 1n. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 45-64 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	35.1	44.8
Mean number of emergency room encounters	1.3	3.1
Mean number of inpatient hospital encounters	0.6	1.5
Mean number of non-acute institutional encounters	0.2	0.7
Mean number of other ambulatory encounters	13.0	24.8
Mean number of filled prescriptions	54.5	42.8
Mean number of generics dispensed	14.5	7.9
Mean number of unique drug classes dispensed	13.0	6.7
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	10,171	37.2%
Diagnosis 2: F411 — Generalized Anxiety Disorder	4,596	16.8%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	4,017	14.7%
Diagnosis 4: E785 — Hyperlipidemia Unspecified	3,961	14.5%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	3,930	14.4%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years		
Patient Characteristics	Number	
Unique patients	591,907	
Healthcare Payor Status	Number	Percent
Commercial payor patients	432,414	73.1%
Medicare Members	159,493	27.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	56.6	5.5
	Number	Percent
Age		
45-54 years	222,105	37.5%
55-64 years	369,802	62.5%
Sex		
Female	318,473	53.8%
Male	273,434	46.2%
Race ¹		
American Indian or Alaska Native	2,562	0.4%
Asian	3,094	0.5%
Black or African American	43,488	7.3%
Multi-racial	5,007	0.8%
Native Hawaiian or Other Pacific Islander	374	0.1%
Unknown	337,403	57.0%
White	199,979	33.8%
Hispanic origin		
Yes	10,716	1.8%
No	208,644	35.2%
Unknown	372,547	62.9%
Year		
2020	231,055	39.0%
2021	294,573	49.8%
2022	66,279	11.2%
Census Bureau Region ²		
Invalid	2,578	0.4%
Midwest	159,212	26.9%
Northeast	59,568	10.1%
South	257,562	43.5%
West	112,728	19.0%
Missing	81	0.0%
Other	178	0.0%

Table 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.2	3.0
Combined comorbidity score categories		
<=0	226,787	38.3%
1-2	181,243	30.6%
3-4	73,860	12.5%
5+	110,017	18.6%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	20,107	3.4%
ADHD Non-Stimulant Medication on index date or year prior	3,191	0.5%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	591,907	100.0%
Medication for Opioid-Related Disorders on index date or year prior	4,892	0.8%
Antidepressant Medication on index date or year prior	257,393	43.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	205,424	34.7%
Antipsychotic Medication on index date or year prior	66,597	11.3%
Mood Stabilizers on index date or year prior	35,495	6.0%
Cancer on index date or year prior	62,403	10.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	510,868	86.3%
ADHD on Index Date or year prior	16,461	2.8%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	3,411	0.6%
Narcolepsy on index date or year prior	1,483	0.3%
Binge-Eating Disorder on index date or year prior	1,003	0.2%
ADHD on Index Date or 30 days Prior	6,787	1.1%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	861	0.1%
Narcolepsy on index date or 30 days Prior	479	0.1%
Binge-Eating Disorder on index date or 30 days Prior	302	0.1%
Hypertension on index date or year prior	358,575	60.6%
Coronary artery disease on index date or year prior	108,275	18.3%
Cardiac arrhythmia on index date or year prior	106,496	18.0%
Cardiomyopathy on index date or year prior	23,986	4.1%
Cardiac structural abnormality on index date or year prior	6,832	1.2%
All other diseases of the circulatory system on index date or year prior	93,597	15.8%
Epilepsy or recurrent seizures on index date or year prior	21,681	3.7%
Other seizure or convulsions on index date or year prior	19,942	3.4%
Depression on index date or year prior	169,385	28.6%
Anxiety on index date or year prior	197,372	33.3%
Bipolar Disorder on index date or year prior	36,341	6.1%
Sleep Disorder on index date or year prior	221,977	37.5%
Psychotic Disorder on index date or year prior	17,811	3.0%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	24,481	4.1%
Manic Episode on index date or year prior	742	0.1%
Autistic Disorder on index date or year prior	838	0.1%

Table 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	234,492	39.6%
Opioid-Related Disorders on index date or year prior	26,699	4.5%
Stimulant-Related Disorders on index date or year prior	8,377	1.4%
Cocaine-Related Disorders on index date or year prior	4,530	0.8%
Other Stimulant-Related Disorders on index date or year prior	4,530	0.8%
Alcohol-Related Disorders on index date or year prior	31,332	5.3%
Cannabis-Related Disorders on index date or year prior	13,607	2.3%
Tobacco-Related Disorders on index date or year prior	210,824	35.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	53,002	9.0%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,632	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	967	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	341	0.1%
Intentional Poisoning by Broad Category on index date or year prior	4,066	0.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	573,340	96.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	584,413	98.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	3,146	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	816	0.1%
At least One Encounter in the Emergency Department in Year Prior	237,146	40.1%
At least One Encounter in the Inpatient Care Setting in Year Prior	154,690	26.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	588,075	99.4%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	226,840	38.3%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	83,535	14.1%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	52,989	9.0%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	56,107	9.5%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	16,478	2.8%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	2,773	0.5%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	15,772	2.7%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	2,527	0.4%

Table 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	27	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	52	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	368	0.1%
Dextroamphetamine Single-entity Products Extended Release	229	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	11,870	2.0%
Amphetamine/Dextroamphetamine Combination Products Extended Release	6,394	1.1%
Lisdexamfetamine Extended Release	4,702	0.8%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	3,721	0.6%
Methylphenidate Single-entity Products Extended Release Oral Solid	1,958	0.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	15	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	259	0.0%
Dexmethylphenidate Single-entity Products Extended Release	305	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	43	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	15,435	2.6%
Any ADHD Stimulant API Extended Release	12,021	2.0%
Atomoxetine Immediate Release	2,165	0.4%
Guanfacine Extended Release	428	0.1%
Viloxazine Extended Release	59	0.0%
Clonidine Extended Release	2,184	0.4%
Any ADHD Non-Stimulant API Extended Release	2,656	0.4%
Codeine	387	0.1%
Fentanyl	8,360	1.4%
Hydrocodone	371,555	62.8%
Hydromorphone	25,777	4.4%
Morphine	21,903	3.7%
Oxycodone	326,866	55.2%
Oxymorphone	166	0.0%
Other C-II Opioid Analgesics	5,251	0.9%

Table 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	25.2	30.0
Mean number of emergency room encounters	1.0	2.4
Mean number of inpatient hospital encounters	0.4	1.0
Mean number of non-acute institutional encounters	0.1	0.4
Mean number of other ambulatory encounters	8.2	17.7
Mean number of filled prescriptions	40.1	35.5
Mean number of generics dispensed	12.3	6.8
Mean number of unique drug classes dispensed	10.9	5.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	221,849	37.5%
Diagnosis 2: Z01818 — Encounter For Other Preprocedural Examination	143,606	24.3%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	124,070	21.0%
Diagnosis 4: E785 — Hyperlipidemia Unspecified	110,763	18.7%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	89,379	15.1%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 65+ Years		
Patient Characteristics	Number	
Unique patients	43,961	
Healthcare Payor Status	Number	Percent
Commercial payor patients	8,824	20.1%
Medicare Members	35,137	79.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	73.4	6.4
	Number	Percent
Age		
≥ 65 years	43,961	100.0%
Sex		
Female	25,466	57.9%
Male	18,495	42.1%
Race ¹		
American Indian or Alaska Native	89	0.2%
Asian	275	0.6%
Black or African American	1,071	2.4%
Multi-racial	76	0.2%
Native Hawaiian or Other Pacific Islander	38	0.1%
Unknown	4,498	10.2%
White	37,914	86.2%
Hispanic origin		
Yes	200	0.5%
No	37,433	85.2%
Unknown	6,328	14.4%
Year		
2020	15,310	34.8%
2021	22,184	50.5%
2022	6,467	14.7%
Census Bureau Region ²		
Invalid	123	0.3%
Midwest	9,222	21.0%
Northeast	8,005	18.2%
South	17,357	39.5%
West	9,223	21.0%
Missing	*****	*****
Other	*****	*****

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.6	3.9
Combined comorbidity score categories		
<=0	9,149	20.8%
1-2	13,608	31.0%
3-4	7,475	17.0%
5+	13,729	31.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	43,961	100.0%
ADHD Non-Stimulant Medication on index date or year prior	833	1.9%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	14,232	32.4%
Medication for Opioid-Related Disorders on index date or year prior	363	0.8%
Antidepressant Medication on index date or year prior	30,546	69.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	19,846	45.1%
Antipsychotic Medication on index date or year prior	9,031	20.5%
Mood Stabilizers on index date or year prior	3,924	8.9%
Cancer on index date or year prior	9,494	21.6%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	33,938	77.2%
ADHD on Index Date or year prior	10,496	23.9%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	368	0.8%
Narcolepsy on index date or year prior	1,117	2.5%
Binge-Eating Disorder on index date or year prior	445	1.0%
ADHD on Index Date or 30 days Prior	7,801	17.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	116	0.3%
Narcolepsy on index date or 30 days Prior	647	1.5%
Binge-Eating Disorder on index date or 30 days Prior	355	0.8%
Hypertension on index date or year prior	30,123	68.5%
Coronary artery disease on index date or year prior	12,581	28.6%
Cardiac arrhythmia on index date or year prior	11,047	25.1%
Cardiomyopathy on index date or year prior	1,937	4.4%
Cardiac structural abnormality on index date or year prior	549	1.2%
All other diseases of the circulatory system on index date or year prior	8,998	20.5%
Epilepsy or recurrent seizures on index date or year prior	1,376	3.1%
Other seizure or convulsions on index date or year prior	1,545	3.5%
Depression on index date or year prior	23,828	54.2%
Anxiety on index date or year prior	19,732	44.9%
Bipolar Disorder on index date or year prior	3,109	7.1%
Sleep Disorder on index date or year prior	22,534	51.3%
Psychotic Disorder on index date or year prior	1,435	3.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	1,696	3.9%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	91	0.2%
Autistic Disorder on index date or year prior	52	0.1%
Any Substance-Related Disorders on index date or year prior	14,926	34.0%
Opioid-Related Disorders on index date or year prior	2,351	5.3%
Stimulant-Related Disorders on index date or year prior	190	0.4%
Cocaine-Related Disorders on index date or year prior	46	0.1%
Other Stimulant-Related Disorders on index date or year prior	147	0.3%
Alcohol-Related Disorders on index date or year prior	1,670	3.8%
Cannabis-Related Disorders on index date or year prior	423	1.0%
Tobacco-Related Disorders on index date or year prior	12,500	28.4%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	1,613	3.7%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	108	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	74	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	*****	*****
Intentional Poisoning by Broad Category on index date or year prior	703	1.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	32,090	73.0%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	35,229	80.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	289	0.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	92	0.2%
At least One Encounter in the Emergency Department in Year Prior	14,051	32.0%
At least One Encounter in the Inpatient Care Setting in Year Prior	10,209	23.2%
At least One Encounter in the Outpatient Care Setting in Year Prior	43,839	99.7%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	29,783	67.7%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	12,182	27.7%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	6,473	14.7%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	7,110	16.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	638	1.5%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	10,189	23.2%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	7,846	17.8%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 65+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	31	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	18	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	0	0.0%
Dextroamphetamine Single-entity Products Immediate Release	896	2.0%
Dextroamphetamine Single-entity Products Extended Release	450	1.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	16,096	36.6%
Amphetamine/Dextroamphetamine Combination Products Extended Release	6,417	14.6%
Lisdexamfetamine Extended Release	2,308	5.3%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	21,578	49.1%
Methylphenidate Single-entity Products Extended Release Oral Solid	2,769	6.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	18	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	602	1.4%
Dexmethylphenidate Single-entity Products Extended Release	403	0.9%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	*****	*****
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	37,192	84.6%
Any ADHD Stimulant API Extended Release	11,312	25.7%
Atomoxetine Immediate Release	722	1.6%
Guanfacine Extended Release	110	0.3%
Viloxazine Extended Release	12	0.0%
Clonidine Extended Release	187	0.4%
Any ADHD Non-Stimulant API Extended Release	304	0.7%
Codeine	20	0.0%
Fentanyl	837	1.9%
Hydrocodone	10,411	23.7%
Hydromorphone	1,116	2.5%
Morphine	1,855	4.2%
Oxycodone	9,511	21.6%
Oxymorphone	16	0.0%
Other C-II Opioid Analgesics	479	1.1%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 65+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	32.2	27.3
Mean number of emergency room encounters	0.6	1.4
Mean number of inpatient hospital encounters	0.4	0.9
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	11.7	20.3
Mean number of filled prescriptions	42.8	33.2
Mean number of generics dispensed	13.1	6.9
Mean number of unique drug classes dispensed	12.1	6.0
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	13,674	31.1%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	6,697	15.2%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	6,360	14.5%
Diagnosis 4: R5383 — Other Fatigue	5,669	12.9%
Diagnosis 5: Z23 — Encounter For Immunization	5,577	12.7%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Patient Characteristics	Number	
Unique patients	41,341	
Healthcare Payor Status	Number	Percent
Commercial payor patients	8,387	20.3%
Medicare Members	32,954	79.7%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	77.1	8.0
	Number	Percent
Age		
≥ 65 years	41,341	100.0%
Sex		
Female	27,582	66.7%
Male	13,759	33.3%
Race ¹		
American Indian or Alaska Native	197	0.5%
Asian	1,099	2.7%
Black or African American	6,533	15.8%
Multi-racial	37	0.1%
Native Hawaiian or Other Pacific Islander	55	0.1%
Unknown	4,424	10.7%
White	28,996	70.1%
Hispanic origin		
Yes	898	2.2%
No	35,256	85.3%
Unknown	5,187	12.5%
Year		
2020	14,799	35.8%
2021	21,339	51.6%
2022	5,203	12.6%
Census Bureau Region ²		
Invalid	86	0.2%
Midwest	7,379	17.9%
Northeast	5,973	14.5%
South	19,494	47.2%
West	8,378	20.3%
Missing	*****	*****
Other	*****	*****

Table 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	5.2	4.1
Combined comorbidity score categories		
<=0	5,020	12.1%
1-2	8,121	19.6%
3-4	7,452	18.0%
5+	20,748	50.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	1,683	4.1%
ADHD Non-Stimulant Medication on index date or year prior	41,341	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	11,171	27.0%
Medication for Opioid-Related Disorders on index date or year prior	229	0.6%
Antidepressant Medication on index date or year prior	19,750	47.8%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	13,918	33.7%
Antipsychotic Medication on index date or year prior	5,413	13.1%
Mood Stabilizers on index date or year prior	2,662	6.4%
Cancer on index date or year prior	5,945	14.4%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	33,582	81.2%
ADHD on Index Date or year prior	2,553	6.2%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	734	1.8%
Narcolepsy on index date or year prior	130	0.3%
Binge-Eating Disorder on index date or year prior	31	0.1%
ADHD on Index Date or 30 days Prior	1,947	4.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	235	0.6%
Narcolepsy on index date or 30 days Prior	58	0.1%
Binge-Eating Disorder on index date or 30 days Prior	18	0.0%
Hypertension on index date or year prior	38,744	93.7%
Coronary artery disease on index date or year prior	20,079	48.6%
Cardiac arrhythmia on index date or year prior	17,219	41.7%
Cardiomyopathy on index date or year prior	3,010	7.3%
Cardiac structural abnormality on index date or year prior	688	1.7%
All other diseases of the circulatory system on index date or year prior	11,905	28.8%
Epilepsy or recurrent seizures on index date or year prior	2,061	5.0%
Other seizure or convulsions on index date or year prior	2,386	5.8%
Depression on index date or year prior	14,889	36.0%
Anxiety on index date or year prior	15,953	38.6%
Bipolar Disorder on index date or year prior	1,700	4.1%
Sleep Disorder on index date or year prior	20,126	48.7%
Psychotic Disorder on index date or year prior	2,887	7.0%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	822	2.0%

Table 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	96	0.2%
Autistic Disorder on index date or year prior	33	0.1%
Any Substance-Related Disorders on index date or year prior	15,086	36.5%
Opioid-Related Disorders on index date or year prior	2,179	5.3%
Stimulant-Related Disorders on index date or year prior	265	0.6%
Cocaine-Related Disorders on index date or year prior	122	0.3%
Other Stimulant-Related Disorders on index date or year prior	152	0.4%
Alcohol-Related Disorders on index date or year prior	1,540	3.7%
Cannabis-Related Disorders on index date or year prior	380	0.9%
Tobacco-Related Disorders on index date or year prior	13,107	31.7%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	1,732	4.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	150	0.4%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	109	0.3%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	13	0.0%
Intentional Poisoning by Broad Category on index date or year prior	471	1.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	38,677	93.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	39,334	95.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	703	1.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	227	0.5%
At least One Encounter in the Emergency Department in Year Prior	19,123	46.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	17,494	42.3%
At least One Encounter in the Outpatient Care Setting in Year Prior	41,272	99.8%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	19,372	46.9%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	8,094	19.6%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	4,446	10.8%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	5,126	12.4%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	1,180	2.9%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	9,356	22.6%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	6,382	15.4%

Table 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	*****	*****
Amphetamine Single-entity Products Extended Release Oral Solid	*****	*****
Amphetamine Single-entity Products Extended Release Oral Liquid	0	0.0%
Dextroamphetamine Single-entity Products Immediate Release	54	0.1%
Dextroamphetamine Single-entity Products Extended Release	32	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate	779	1.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	414	1.0%
Lisdexamfetamine Extended Release	209	0.5%
Methamphetamine Single-entity Products Immediate Release	0	0.0%
Methylphenidate Single-entity Products Immediate Release	538	1.3%
Methylphenidate Single-entity Products Extended Release Oral Solid	205	0.5%
Methylphenidate Single-entity Products Extended Release Oral Liquid	0	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	61	0.1%
Dexmethylphenidate Single-entity Products Extended Release	38	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	*****	*****
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	1,290	3.1%
Any ADHD Stimulant API Extended Release	785	1.9%
Atomoxetine Immediate Release	4,839	11.7%
Guanfacine Extended Release	1,008	2.4%
Viloxazine Extended Release	22	0.1%
Clonidine Extended Release	35,642	86.2%
Any ADHD Non-Stimulant API Extended Release	36,613	88.6%
Codeine	*****	*****
Fentanyl	508	1.2%
Hydrocodone	8,730	21.1%
Hydromorphone	599	1.4%
Morphine	1,433	3.5%
Oxycodone	6,272	15.2%
Oxymorphone	17	0.0%
Other C-II Opioid Analgesics	226	0.5%

Table 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	33.9	37.6
Mean number of emergency room encounters	1.2	2.2
Mean number of inpatient hospital encounters	0.8	1.3
Mean number of non-acute institutional encounters	0.3	0.9
Mean number of other ambulatory encounters	20.1	31.5
Mean number of filled prescriptions	57.8	46.6
Mean number of generics dispensed	15.8	7.3
Mean number of unique drug classes dispensed	14.1	6.1
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	30,349	73.4%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	12,670	30.6%
Diagnosis 3: E119 — Type 2 Diabetes Mellitus Without Complications	9,172	22.2%
Diagnosis 4: I2510 — Ashd Native Coronary Artery Without Angina Pectoris	7,996	19.3%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	7,625	18.4%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Patient Characteristics	Number	
Unique patients	1,724,626	
Healthcare Payor Status	Number	Percent
Commercial payor patients	405,251	23.5%
Medicare Members	1,319,375	76.5%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	75.5	7.2
	Number	Percent
Age		
≥ 65 years	1,724,626	100.0%
Sex		
Female	1,002,279	58.1%
Male	722,347	41.9%
Race ¹		
American Indian or Alaska Native	5,767	0.3%
Asian	18,691	1.1%
Black or African American	99,544	5.8%
Multi-racial	1,536	0.1%
Native Hawaiian or Other Pacific Islander	2,130	0.1%
Unknown	171,453	9.9%
White	1,425,505	82.7%
Hispanic origin		
Yes	17,808	1.0%
No	1,470,179	85.2%
Unknown	236,639	13.7%
Year		
2020	633,040	36.7%
2021	881,054	51.1%
2022	210,532	12.2%
Census Bureau Region ²		
Invalid	4,276	0.3%
Midwest	443,779	25.7%
Northeast	214,100	12.4%
South	717,736	41.6%
West	343,974	19.9%
Missing	38	0.0%
Other	723	0.0%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.6	3.8
Combined comorbidity score categories		
<=0	404,418	23.4%
1-2	457,557	26.5%
3-4	296,069	17.2%
5+	566,582	32.9%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	14,668	0.9%
ADHD Non-Stimulant Medication on index date or year prior	5,738	0.3%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	1,724,626	100.0%
Medication for Opioid-Related Disorders on index date or year prior	3,135	0.2%
Antidepressant Medication on index date or year prior	681,419	39.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	485,683	28.2%
Antipsychotic Medication on index date or year prior	129,909	7.5%
Mood Stabilizers on index date or year prior	49,584	2.9%
Cancer on index date or year prior	354,096	20.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	1,576,292	91.4%
ADHD on Index Date or year prior	10,579	0.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	8,568	0.5%
Narcolepsy on index date or year prior	2,397	0.1%
Binge-Eating Disorder on index date or year prior	485	0.0%
ADHD on Index Date or 30 days Prior	4,199	0.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	2,260	0.1%
Narcolepsy on index date or 30 days Prior	778	0.0%
Binge-Eating Disorder on index date or 30 days Prior	128	0.0%
Hypertension on index date or year prior	1,417,962	82.2%
Coronary artery disease on index date or year prior	657,181	38.1%
Cardiac arrhythmia on index date or year prior	566,347	32.8%
Cardiomyopathy on index date or year prior	113,180	6.6%
Cardiac structural abnormality on index date or year prior	22,963	1.3%
All other diseases of the circulatory system on index date or year prior	393,439	22.8%
Epilepsy or recurrent seizures on index date or year prior	39,180	2.3%
Other seizure or convulsions on index date or year prior	39,223	2.3%
Depression on index date or year prior	457,214	26.5%
Anxiety on index date or year prior	470,980	27.3%
Bipolar Disorder on index date or year prior	30,183	1.8%
Sleep Disorder on index date or year prior	712,746	41.3%
Psychotic Disorder on index date or year prior	39,056	2.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	16,529	1.0%
Manic Episode on index date or year prior	1,156	0.1%
Autistic Disorder on index date or year prior	559	0.0%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	679,491	39.4%
Opioid-Related Disorders on index date or year prior	48,668	2.8%
Stimulant-Related Disorders on index date or year prior	4,219	0.2%
Cocaine-Related Disorders on index date or year prior	2,072	0.1%
Other Stimulant-Related Disorders on index date or year prior	2,339	0.1%
Alcohol-Related Disorders on index date or year prior	51,688	3.0%
Cannabis-Related Disorders on index date or year prior	10,606	0.6%
Tobacco-Related Disorders on index date or year prior	628,711	36.5%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	78,852	4.6%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,765	0.1%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,197	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	142	0.0%
Intentional Poisoning by Broad Category on index date or year prior	14,689	0.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	1,711,406	99.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	1,719,565	99.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	8,440	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	2,242	0.1%
At least One Encounter in the Emergency Department in Year Prior	679,346	39.4%
At least One Encounter in the Inpatient Care Setting in Year Prior	597,861	34.7%
At least One Encounter in the Outpatient Care Setting in Year Prior	1,722,220	99.9%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	617,801	35.8%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	208,751	12.1%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	115,421	6.7%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	104,045	6.0%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	11,793	0.7%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	4,938	0.3%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	11,069	0.6%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	4,521	0.3%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	11	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	*****	*****
Amphetamine Single-entity Products Extended Release Oral Liquid	0	0.0%
Dextroamphetamine Single-entity Products Immediate Release	456	0.0%
Dextroamphetamine Single-entity Products Extended Release	286	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	7,233	0.4%
Amphetamine/Dextroamphetamine Combination Products Extended Release	2,793	0.2%
Lisdexamfetamine Extended Release	1,124	0.1%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	6,854	0.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	1,165	0.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	207	0.0%
Dexmethylphenidate Single-entity Products Extended Release	153	0.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	12	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	14,023	0.8%
Any ADHD Stimulant API Extended Release	5,119	0.3%
Atomoxetine Immediate Release	1,015	0.1%
Guanfacine Extended Release	209	0.0%
Viloxazine Extended Release	20	0.0%
Clonidine Extended Release	6,389	0.4%
Any ADHD Non-Stimulant API Extended Release	6,611	0.4%
Codeine	1,156	0.1%
Fentanyl	38,946	2.3%
Hydrocodone	1,096,488	63.6%
Hydromorphone	63,833	3.7%
Morphine	119,157	6.9%
Oxycodone	862,883	50.0%
Oxymorphone	195	0.0%
Other C-II Opioid Analgesics	9,779	0.6%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	29.0	25.8
Mean number of emergency room encounters	0.8	1.7
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	11.6	21.5
Mean number of filled prescriptions	40.2	33.6
Mean number of generics dispensed	12.5	6.1
Mean number of unique drug classes dispensed	11.3	5.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	933,405	54.1%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	526,780	30.5%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	450,719	26.1%
Diagnosis 4: Z01818 — Encounter For Other Preprocedural Examination	436,607	25.3%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	334,331	19.4%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18+ Years		
Patient Characteristics	Number	
Unique patients	375,058	
Healthcare Payor Status	Number	Percent
Commercial payor patients	314,566	83.9%
Medicare Members	60,492	16.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	39.7	13.5
Age	Number	Percent
18-25 years	97,078	25.9%
26-29 years	36,146	9.6%
30-39 years	90,523	24.1%
40-49 years	58,418	15.6%
50-64 years	48,943	13.0%
≥ 65 years	43,950	11.7%
Sex		
Female	219,622	58.6%
Male	155,436	41.4%
Race ¹		
American Indian or Alaska Native	523	0.1%
Asian	2,497	0.7%
Black or African American	5,303	1.4%
Multi-racial	6,777	1.8%
Native Hawaiian or Other Pacific Islander	143	0.0%
Unknown	257,406	68.6%
White	102,409	27.3%
Hispanic origin		
Yes	5,087	1.4%
No	76,788	20.5%
Unknown	293,183	78.2%
Year		
2020	116,286	31.0%
2021	199,859	53.3%
2022	58,913	15.7%
Census Bureau Region ²		
Invalid	4,159	1.1%
Midwest	83,918	22.4%
Northeast	55,041	14.7%
South	153,550	40.9%
West	78,214	20.9%
Missing	101	0.0%
Other	75	0.0%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.2	1.9
Combined comorbidity score categories		
<=0	175,201	46.7%
1-2	153,852	41.0%
3-4	24,565	6.5%
5+	21,440	5.7%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	375,058	100.0%
ADHD Non-Stimulant Medication on index date or year prior	19,286	5.1%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	66,544	17.7%
Medication for Opioid-Related Disorders on index date or year prior	4,415	1.2%
Antidepressant Medication on index date or year prior	199,634	53.2%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	119,115	31.8%
Antipsychotic Medication on index date or year prior	45,453	12.1%
Mood Stabilizers on index date or year prior	31,523	8.4%
Cancer on index date or year prior	15,212	4.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	169,354	45.2%
ADHD on Index Date or year prior	197,564	52.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	3,711	1.0%
Narcolepsy on index date or year prior	3,905	1.0%
Binge-Eating Disorder on index date or year prior	7,208	1.9%
ADHD on Index Date or 30 days Prior	172,432	46.0%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,474	0.4%
Narcolepsy on index date or 30 days Prior	2,351	0.6%
Binge-Eating Disorder on index date or 30 days Prior	6,046	1.6%
Hypertension on index date or year prior	77,478	20.7%
Coronary artery disease on index date or year prior	18,662	5.0%
Cardiac arrhythmia on index date or year prior	29,257	7.8%
Cardiomyopathy on index date or year prior	3,100	0.8%
Cardiac structural abnormality on index date or year prior	2,004	0.5%
All other diseases of the circulatory system on index date or year prior	20,349	5.4%
Epilepsy or recurrent seizures on index date or year prior	5,745	1.5%
Other seizure or convulsions on index date or year prior	5,931	1.6%
Depression on index date or year prior	145,467	38.8%
Anxiety on index date or year prior	180,083	48.0%
Bipolar Disorder on index date or year prior	28,490	7.6%
Sleep Disorder on index date or year prior	89,728	23.9%
Psychotic Disorder on index date or year prior	7,537	2.0%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	24,868	6.6%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	657	0.2%
Autistic Disorder on index date or year prior	3,742	1.0%
Any Substance-Related Disorders on index date or year prior	67,990	18.1%
Opioid-Related Disorders on index date or year prior	11,861	3.2%
Stimulant-Related Disorders on index date or year prior	4,420	1.2%
Cocaine-Related Disorders on index date or year prior	1,895	0.5%
Other Stimulant-Related Disorders on index date or year prior	3,047	0.8%
Alcohol-Related Disorders on index date or year prior	13,084	3.5%
Cannabis-Related Disorders on index date or year prior	9,376	2.5%
Tobacco-Related Disorders on index date or year prior	49,124	13.1%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	10,013	2.7%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	831	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	500	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	157	0.0%
Intentional Poisoning by Broad Category on index date or year prior	1,782	0.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	169,156	45.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	195,897	52.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,390	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	578	0.2%
At least One Encounter in the Emergency Department in Year Prior	78,285	20.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	32,059	8.5%
At least One Encounter in the Outpatient Care Setting in Year Prior	363,389	96.9%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	204,436	54.5%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	67,301	17.9%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	43,076	11.5%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	45,693	12.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	14,985	4.0%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	33,459	8.9%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	25,307	6.7%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	669	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	893	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	60	0.0%
Dextroamphetamine Single-entity Products Immediate Release	5,313	1.4%
Dextroamphetamine Single-entity Products Extended Release	3,509	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate	175,836	46.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	135,258	36.1%
Lisdexamfetamine Extended Release	82,526	22.0%
Methamphetamine Single-entity Products Immediate Release	47	0.0%
Methylphenidate Single-entity Products Immediate Release	62,819	16.7%
Methylphenidate Single-entity Products Extended Release Oral Solid	50,708	13.5%
Methylphenidate Single-entity Products Extended Release Oral Liquid	65	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	233	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	5,947	1.6%
Dexmethylphenidate Single-entity Products Extended Release	8,748	2.3%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	607	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	234,109	62.4%
Any ADHD Stimulant API Extended Release	235,254	62.7%
Atomoxetine Immediate Release	13,559	3.6%
Guanfacine Extended Release	4,323	1.2%
Viloxazine Extended Release	512	0.1%
Clonidine Extended Release	935	0.2%
Any ADHD Non-Stimulant API Extended Release	5,630	1.5%
Codeine	48	0.0%
Fentanyl	1,605	0.4%
Hydrocodone	50,630	13.5%
Hydromorphone	3,530	0.9%
Morphine	3,885	1.0%
Oxycodone	42,869	11.4%
Oxymorphone	92	0.0%
Other C-II Opioid Analgesics	1,309	0.3%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	16.9	18.8
Mean number of emergency room encounters	0.4	1.3
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.3
Mean number of other ambulatory encounters	5.1	10.9
Mean number of filled prescriptions	22.9	25.3
Mean number of generics dispensed	7.9	5.8
Mean number of unique drug classes dispensed	7.4	5.1
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	78,923	21.0%
Diagnosis 2: F411 — Generalized Anxiety Disorder	64,825	17.3%
Diagnosis 3: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	51,572	13.8%
Diagnosis 4: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	43,805	11.7%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	42,383	11.3%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. *J Clin Epidemiol.* 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. *Med Care.* 2017;55(12):1046-1051.

Table 1t. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18+ Years		
Patient Characteristics	Number	
Unique patients	128,231	
Healthcare Payor Status	Number	Percent
Commercial payor patients	75,515	58.9%
Medicare Members	52,716	41.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.6	16.8
Age	Number	Percent
18-25 years	21,768	17.0%
26-29 years	7,667	6.0%
30-39 years	21,308	16.6%
40-49 years	16,422	12.8%
50-64 years	19,730	15.4%
≥ 65 years	41,336	32.2%
Sex		
Female	77,068	60.1%
Male	51,163	39.9%
Race ¹		
American Indian or Alaska Native	513	0.4%
Asian	1,782	1.4%
Black or African American	11,570	9.0%
Multi-racial	1,505	1.2%
Native Hawaiian or Other Pacific Islander	88	0.1%
Unknown	59,609	46.5%
White	53,164	41.5%
Hispanic origin		
Yes	2,816	2.2%
No	58,588	45.7%
Unknown	66,827	52.1%
Year		
2020	40,917	31.9%
2021	68,200	53.2%
2022	19,114	14.9%
Census Bureau Region ²		
Invalid	975	0.8%
Midwest	28,427	22.2%
Northeast	17,930	14.0%
South	55,571	43.3%
West	25,266	19.7%
Missing	16	0.0%
Other	46	0.0%

Table 1t. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.8	3.1
Combined comorbidity score categories		
<=0	33,406	26.1%
1-2	48,451	37.8%
3-4	16,612	13.0%
5+	29,762	23.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	22,791	17.8%
ADHD Non-Stimulant Medication on index date or year prior	128,231	100.0%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	29,980	23.4%
Medication for Opioid-Related Disorders on index date or year prior	2,895	2.3%
Antidepressant Medication on index date or year prior	74,852	58.4%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	49,344	38.5%
Antipsychotic Medication on index date or year prior	25,906	20.2%
Mood Stabilizers on index date or year prior	16,812	13.1%
Cancer on index date or year prior	7,759	6.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	77,717	60.6%
ADHD on Index Date or year prior	44,304	34.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	3,079	2.4%
Narcolepsy on index date or year prior	448	0.3%
Binge-Eating Disorder on index date or year prior	665	0.5%
ADHD on Index Date or 30 days Prior	36,624	28.6%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,151	0.9%
Narcolepsy on index date or 30 days Prior	185	0.1%
Binge-Eating Disorder on index date or 30 days Prior	351	0.3%
Hypertension on index date or year prior	64,920	50.6%
Coronary artery disease on index date or year prior	26,749	20.9%
Cardiac arrhythmia on index date or year prior	28,798	22.5%
Cardiomyopathy on index date or year prior	4,702	3.7%
Cardiac structural abnormality on index date or year prior	1,405	1.1%
All other diseases of the circulatory system on index date or year prior	19,167	14.9%
Epilepsy or recurrent seizures on index date or year prior	5,570	4.3%
Other seizure or convulsions on index date or year prior	5,932	4.6%
Depression on index date or year prior	55,904	43.6%
Anxiety on index date or year prior	67,798	52.9%
Bipolar Disorder on index date or year prior	15,905	12.4%
Sleep Disorder on index date or year prior	45,761	35.7%
Psychotic Disorder on index date or year prior	9,320	7.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	11,664	9.1%

Table 1t. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	561	0.4%
Autistic Disorder on index date or year prior	2,516	2.0%
Any Substance-Related Disorders on index date or year prior	43,278	33.8%
Opioid-Related Disorders on index date or year prior	9,450	7.4%
Stimulant-Related Disorders on index date or year prior	5,476	4.3%
Cocaine-Related Disorders on index date or year prior	2,438	1.9%
Other Stimulant-Related Disorders on index date or year prior	3,985	3.1%
Alcohol-Related Disorders on index date or year prior	9,708	7.6%
Cannabis-Related Disorders on index date or year prior	7,279	5.7%
Tobacco-Related Disorders on index date or year prior	32,968	25.7%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	6,888	5.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	980	0.8%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	641	0.5%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	208	0.2%
Intentional Poisoning by Broad Category on index date or year prior	1,397	1.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	83,422	65.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	91,320	71.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,732	1.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	697	0.5%
At least One Encounter in the Emergency Department in Year Prior	47,799	37.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	32,153	25.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	126,447	98.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	71,113	55.5%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	22,217	17.3%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	16,453	12.8%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	24,244	18.9%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	21,035	16.4%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	18,632	14.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	13,739	10.7%

Table 1t. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	77	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	107	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	691	0.5%
Dextroamphetamine Single-entity Products Extended Release	515	0.4%
Amphetamine/Dextroamphetamine Combination Products Immediate	14,442	11.3%
Amphetamine/Dextroamphetamine Combination Products Extended Release	12,993	10.1%
Lisdexamfetamine Extended Release	9,763	7.6%
Methamphetamine Single-entity Products Immediate Release	11	0.0%
Methylphenidate Single-entity Products Immediate Release	4,824	3.8%
Methylphenidate Single-entity Products Extended Release Oral Solid	6,383	5.0%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	56	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	876	0.7%
Dexmethylphenidate Single-entity Products Extended Release	1,360	1.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	137	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	18,955	14.8%
Any ADHD Stimulant API Extended Release	24,786	19.3%
Atomoxetine Immediate Release	65,625	51.2%
Guanfacine Extended Release	14,638	11.4%
Viloxazine Extended Release	587	0.5%
Clonidine Extended Release	51,371	40.1%
Any ADHD Non-Stimulant API Extended Release	66,119	51.6%
Codeine	16	0.0%
Fentanyl	969	0.8%
Hydrocodone	22,026	17.2%
Hydromorphone	1,751	1.4%
Morphine	2,481	1.9%
Oxycodone	17,969	14.0%
Oxymorphone	66	0.1%
Other C-II Opioid Analgesics	628	0.5%

Table 1t. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

ADHD Non-Stimulant Medication Patients of Age 18+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	28.3	36.5
Mean number of emergency room encounters	1.0	2.6
Mean number of inpatient hospital encounters	0.5	1.3
Mean number of non-acute institutional encounters	0.2	0.7
Mean number of other ambulatory encounters	12.3	23.3
Mean number of filled prescriptions	42.8	38.9
Mean number of generics dispensed	12.2	7.2
Mean number of unique drug classes dispensed	11.1	6.1
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	44,753	34.9%
Diagnosis 2: F411 — Generalized Anxiety Disorder	22,772	17.8%
Diagnosis 3: F419 — Anxiety Disorder Unspecified	18,234	14.2%
Diagnosis 4: E785 — Hyperlipidemia Unspecified	17,983	14.0%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	16,330	12.7%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Patient Characteristics	Number	
Unique patients	2,562,228	
Healthcare Payor Status	Number	Percent
Commercial payor patients	1,046,602	40.9%
Medicare Members	1,515,626	59.2%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	67.2	12.2
Age	Number	Percent
18-25 years	37,126	1.4%
26-29 years	23,436	0.9%
30-39 years	108,874	4.2%
40-49 years	172,364	6.7%
50-64 years	496,448	19.4%
≥ 65 years	1,723,980	67.3%
Sex		
Female	1,467,353	57.3%
Male	1,094,875	42.7%
Race ¹		
American Indian or Alaska Native	9,050	0.4%
Asian	23,468	0.9%
Black or African American	154,611	6.0%
Multi-racial	9,738	0.4%
Native Hawaiian or Other Pacific Islander	2,591	0.1%
Unknown	694,969	27.1%
White	1,667,801	65.1%
Hispanic origin		
Yes	33,806	1.3%
No	1,719,191	67.1%
Unknown	809,231	31.6%
Year		
2020	961,019	37.5%
2021	1,298,398	50.7%
2022	302,811	11.8%
Census Bureau Region ²		
Invalid	8,307	0.3%
Midwest	667,948	26.1%
Northeast	292,772	11.4%
South	1,081,888	42.2%
West	510,188	19.9%
Missing	176	0.0%
Other	949	0.0%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁵	3.0	3.5
Combined comorbidity score categories		
<=0	758,548	29.6%
1-2	720,445	28.1%
3-4	388,587	15.2%
5+	694,648	27.1%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	53,195	2.1%
ADHD Non-Stimulant Medication on index date or year prior	11,061	0.4%
Schedule II (C-II) Opioid Analgesic on Index Date or Year Prior	2,562,228	100.0%
Medication for Opioid-Related Disorders on index date or year prior	9,859	0.4%
Antidepressant Medication on index date or year prior	1,021,734	39.9%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	760,623	29.7%
Antipsychotic Medication on index date or year prior	218,055	8.5%
Mood Stabilizers on index date or year prior	98,950	3.9%
Cancer on index date or year prior	424,867	16.6%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	2,252,326	87.9%
ADHD on Index Date or year prior	44,212	1.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	13,765	0.5%
Narcolepsy on index date or year prior	4,538	0.2%
Binge-Eating Disorder on index date or year prior	2,206	0.1%
ADHD on Index Date or 30 days Prior	18,265	0.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	3,617	0.1%
Narcolepsy on index date or 30 days Prior	1,477	0.1%
Binge-Eating Disorder on index date or 30 days Prior	681	0.0%
Hypertension on index date or year prior	1,831,676	71.5%
Coronary artery disease on index date or year prior	773,758	30.2%
Cardiac arrhythmia on index date or year prior	700,424	27.3%
Cardiomyopathy on index date or year prior	140,327	5.5%
Cardiac structural abnormality on index date or year prior	32,259	1.3%
All other diseases of the circulatory system on index date or year prior	506,594	19.8%
Epilepsy or recurrent seizures on index date or year prior	69,049	2.7%
Other seizure or convulsions on index date or year prior	66,757	2.6%
Depression on index date or year prior	681,700	26.6%
Anxiety on index date or year prior	747,819	29.2%
Bipolar Disorder on index date or year prior	80,711	3.2%
Sleep Disorder on index date or year prior	985,745	38.5%
Psychotic Disorder on index date or year prior	62,666	2.4%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	53,335	2.1%
Manic Episode on index date or year prior	2,174	0.1%
Autistic Disorder on index date or year prior	2,848	0.1%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	981,458	38.3%
Opioid-Related Disorders on index date or year prior	83,343	3.3%
Stimulant-Related Disorders on index date or year prior	15,860	0.6%
Cocaine-Related Disorders on index date or year prior	8,110	0.3%
Other Stimulant-Related Disorders on index date or year prior	9,003	0.4%
Alcohol-Related Disorders on index date or year prior	91,646	3.6%
Cannabis-Related Disorders on index date or year prior	32,339	1.3%
Tobacco-Related Disorders on index date or year prior	897,666	35.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	144,042	5.6%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	4,041	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	2,540	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	617	0.0%
Intentional Poisoning by Broad Category on index date or year prior	20,116	0.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	2,512,220	98.0%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	2,542,004	99.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	12,957	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	3,473	0.1%
At least One Encounter in the Emergency Department in Year Prior	1,017,451	39.7%
At least One Encounter in the Inpatient Care Setting in Year Prior	812,216	31.7%
At least One Encounter in the Outpatient Care Setting in Year Prior	2,551,783	99.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	908,321	35.5%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	316,199	12.3%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	181,741	7.1%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	176,114	6.9%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	41,255	1.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	9,195	0.4%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	39,397	1.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	8,445	0.3%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History		
Amphetamine Single-entity Products Immediate Release	86	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	124	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	1,175	0.0%
Dextroamphetamine Single-entity Products Extended Release	737	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	31,653	1.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	17,428	0.7%
Lisdexamfetamine Extended Release	11,678	0.5%
Methamphetamine Single-entity Products Immediate Release	23	0.0%
Methylphenidate Single-entity Products Immediate Release	12,759	0.5%
Methylphenidate Single-entity Products Extended Release Oral Solid	5,489	0.2%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	44	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	758	0.0%
Dexmethylphenidate Single-entity Products Extended Release	925	0.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	115	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	44,067	1.7%
Any ADHD Stimulant API Extended Release	31,847	1.2%
Atomoxetine Immediate Release	5,660	0.2%
Guanfacine Extended Release	1,208	0.0%
Viloxazine Extended Release	166	0.0%
Clonidine Extended Release	9,379	0.4%
Any ADHD Non-Stimulant API Extended Release	10,706	0.4%
Codeine	1,655	0.1%
Fentanyl	48,708	1.9%
Hydrocodone	1,615,560	63.1%
Hydromorphone	97,892	3.8%
Morphine	145,742	5.7%
Oxycodone	1,323,700	51.7%
Oxymorphone	416	0.0%
Other C-II Opioid Analgesics	16,631	0.6%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	27.2	27.1
Mean number of emergency room encounters	0.9	2.0
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	0.1	0.5
Mean number of other ambulatory encounters	10.3	20.0
Mean number of filled prescriptions	38.6	33.9
Mean number of generics dispensed	12.2	6.3
Mean number of unique drug classes dispensed	10.9	5.4
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	1,186,347	46.3%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	648,103	25.3%
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	622,138	24.3%
Diagnosis 4: Z79899 — Other Long Term Current Drug Therapy	610,902	23.8%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	443,866	17.3%

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

²Due to data partners' data privacy restrictions, any data smaller than 25 has not been included (i.e., is regarded as 0). As a result, the sum of the numbers across all states is slightly smaller than the total number of patients.

³Value represents the standard deviation where no % follows the value.

⁴Gagne JJ, Glynn RJ, Avorn J, Levin R, Schneeweiss S. A combined comorbidity score predicted mortality in elderly patients better than existing scores. J Clin Epidemiol. 2011;64(7):749-759. Sun JW, Rogers JR, Her Q, Welch EC, Panozzo CA, Toh S, Gagne JJ. Adaptation and validation of the combined comorbidity score for ICD-10-CM. Med Care. 2017;55(12):1046-1051.

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

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020

	Total Number of Patients	Number of Patients by Cumulative Treatment Episode Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	501,357	178,689	35.6%	94,843	18.9%	62,998	12.6%	44,779	8.9%	32,927	6.6%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	170,813	79,573	46.6%	32,634	19.1%	17,717	10.4%	11,205	6.6%	8,356	4.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	2,571,447	2,177,126	84.7%	173,527	6.7%	71,578	2.8%	42,188	1.6%	29,394	1.1%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	126,400	43,246	34.2%	24,893	19.7%	16,884	13.4%	11,602	9.2%	8,242	6.5%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	42,589	17,014	39.9%	7,958	18.7%	5,035	11.8%	3,266	7.7%	2,445	5.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,232	9,123	98.8%	60	0.6%	19	0.2%	*****	*****	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	97,078	36,383	37.5%	20,016	20.6%	12,749	13.1%	8,582	8.8%	5,953	6.1%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	21,768	12,141	55.8%	4,178	19.2%	2,162	9.9%	1,190	5.5%	726	3.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	37,126	36,222	97.6%	407	1.1%	166	0.4%	92	0.2%	62	0.2%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	159,433	51,222	32.1%	29,784	18.7%	20,520	12.9%	15,059	9.4%	11,489	7.2%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020

	Total Number of Patients	Number of Patients by Cumulative Treatment Episode Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	37,759	20,142	53.3%	7,249	19.2%	3,630	9.6%	2,117	5.6%	1,465	3.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	209,532	187,875	89.7%	8,163	3.9%	3,624	1.7%	2,459	1.2%	1,804	0.9%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	74,684	26,884	36.0%	13,057	17.5%	8,781	11.8%	6,515	8.7%	4,837	6.5%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	27,377	12,859	47.0%	5,391	19.7%	2,727	10.0%	1,830	6.7%	1,343	4.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	591,907	488,084	82.5%	40,630	6.9%	18,169	3.1%	11,536	1.9%	8,587	1.5%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	43,961	22,334	50.8%	7,413	16.9%	4,025	9.2%	2,815	6.4%	2,114	4.8%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	41,341	17,573	42.5%	7,900	19.1%	4,152	10.0%	2,787	6.7%	2,344	5.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	1,724,626	1,458,238	84.6%	123,924	7.2%	49,337	2.9%	27,930	1.6%	18,770	1.1%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	375,058	136,134	36.3%	70,109	18.7%	46,069	12.3%	33,047	8.8%	24,523	6.5%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	128,231	62,629	48.8%	24,685	19.3%	12,685	9.9%	7,928	6.2%	5,900	4.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	2,562,228	2,168,021	84.6%	173,463	6.8%	71,559	2.8%	42,179	1.6%	29,386	1.1%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020

	Number of Patients by Cumulative Treatment Episode Duration							
	301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	25,669	5.1%	19,728	3.9%	14,862	3.0%	26,862	5.4%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	6,187	3.6%	4,706	2.8%	3,496	2.0%	6,939	4.1%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	22,055	0.9%	16,196	0.6%	12,919	0.5%	26,464	1.0%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	6,568	5.2%	5,154	4.1%	3,780	3.0%	6,031	4.8%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	1,925	4.5%	1,480	3.5%	1,151	2.7%	2,315	5.4%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	*****	*****	*****	*****	*****	*****	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	4,352	4.5%	3,096	3.2%	2,251	2.3%	3,696	3.8%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	477	2.2%	315	1.4%	217	1.0%	362	1.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	49	0.1%	38	0.1%	29	0.1%	61	0.2%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	9,092	5.7%	7,064	4.4%	5,235	3.3%	9,968	6.3%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020

	Number of Patients by Cumulative Treatment Episode Duration							
	301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	996	2.6%	731	1.9%	482	1.3%	947	2.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	1,427	0.7%	1,180	0.6%	946	0.5%	2,054	1.0%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	3,890	5.2%	3,114	4.2%	2,490	3.3%	5,116	6.9%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	949	3.5%	772	2.8%	498	1.8%	1,008	3.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	6,630	1.1%	4,967	0.8%	4,191	0.7%	9,113	1.5%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	1,540	3.5%	1,083	2.5%	909	2.1%	1,728	3.9%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	1,803	4.4%	1,385	3.4%	1,137	2.8%	2,260	5.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	13,804	0.8%	9,900	0.6%	7,653	0.4%	15,070	0.9%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	18,975	5.1%	14,482	3.9%	10,990	2.9%	20,729	5.5%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	4,245	3.3%	3,218	2.5%	2,338	1.8%	4,603	3.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	22,053	0.9%	16,194	0.6%	12,916	0.5%	26,457	1.0%

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

Table 2b. Continuous Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Distribution of Cumulative Treatment Episode Duration, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	501,357	1	37	105	233	730	160.5	152.3
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	170,813	1	30	72	176	730	130.3	141.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	2,571,447	1	7	10	31	730	42.4	87.1
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	126,400	1	44	108	230	730	159.8	148.0
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	42,589	1	30	90	213	730	151.6	153.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,232	1	7	7	7	709	10.7	23.4
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	97,078	1	32	92	204	730	145.3	138.6
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	21,768	1	30	60	121	730	97.8	109.0
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	37,126	1	7	7	7	730	13.7	37.5
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	159,433	1	49	120	255	730	172.8	158.1
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	37,759	1	30	60	135	729	108.0	122.3

Table 2b. Continuous Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Distribution of Cumulative Treatment Episode Duration, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	209,532	1	7	7	15	730	33.1	82.5
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	74,684	1	31	108	249	730	169.0	162.4
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	27,377	1	30	71	172	730	127.3	138.3
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	591,907	1	7	9	36	730	49.3	100.9
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	43,961	1	30	60	168	730	124.6	141.1
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	41,341	1	28	84	207	730	146.4	155.2
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	1,724,626	1	7	10	34	730	41.7	82.7
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	375,058	1	33	102	233	730	160.0	153.6
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	128,231	1	30	64	164	730	123.0	136.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	2,562,228	1	7	10	32	730	42.5	87.2

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		0-60 Days		61-120 Days		121-180 Days		181-240 Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	738,935	379,782	51.4%	152,383	20.6%	71,383	9.7%	43,648	5.9%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	200,105	102,901	51.4%	40,901	20.4%	19,173	9.6%	11,251	5.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	3,296,950	2,920,311	88.6%	187,725	5.7%	67,399	2.0%	37,127	1.1%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	193,162	97,522	50.5%	43,642	22.6%	20,105	10.4%	11,427	5.9%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	51,674	24,234	46.9%	10,412	20.1%	5,555	10.8%	3,435	6.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,598	9,498	99.0%	57	0.6%	15	0.2%	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	145,395	79,167	54.4%	30,791	21.2%	13,459	9.3%	7,773	5.3%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	24,920	14,967	60.1%	4,932	19.8%	2,110	8.5%	1,117	4.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	39,511	38,626	97.8%	441	1.1%	150	0.4%	96	0.2%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	224,018	105,594	47.1%	45,172	20.2%	22,940	10.2%	15,008	6.7%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	43,076	24,717	57.4%	8,528	19.8%	3,753	8.7%	2,035	4.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	243,486	221,863	91.1%	9,245	3.8%	3,636	1.5%	2,368	1.0%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	107,417	54,656	50.9%	20,437	19.0%	9,949	9.3%	6,506	6.1%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	31,989	16,419	51.3%	6,788	21.2%	3,044	9.5%	1,790	5.6%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		0-60 Days		61-120 Days		121-180 Days		181-240 Days	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	752,155	649,791	86.4%	45,332	6.0%	18,261	2.4%	10,793	1.4%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	61,181	37,629	61.5%	10,803	17.7%	4,414	7.2%	2,673	4.4%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	47,704	22,154	46.4%	10,053	21.1%	4,632	9.7%	2,843	6.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	2,244,518	1,994,374	88.9%	131,840	5.9%	45,072	2.0%	23,682	1.1%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	541,977	279,606	51.6%	108,018	19.9%	51,034	9.4%	32,111	5.9%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	148,093	78,484	53.0%	30,395	20.5%	13,587	9.2%	7,801	5.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	3,287,307	2,910,770	88.5%	187,666	5.7%	67,384	2.0%	37,117	1.1%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Number of Treatment Episodes by Duration									
	241-300 Days		301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Episodes	Percent of Total Episodes	Number of Patients	Percent of Total Patients	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	26,860	3.6%	19,349	2.6%	14,586	2.0%	10,934	1.5%	20,010	2.7%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	7,686	3.8%	5,472	2.7%	3,994	2.0%	2,956	1.5%	5,771	2.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	24,053	0.7%	17,606	0.5%	12,524	0.4%	9,929	0.3%	20,276	0.6%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	5,979	3.1%	4,252	2.2%	3,275	1.7%	2,527	1.3%	4,433	2.3%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	2,225	4.3%	1,654	3.2%	1,246	2.4%	983	1.9%	1,930	3.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	4,660	3.2%	3,073	2.1%	2,218	1.5%	1,642	1.1%	2,612	1.8%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	661	2.7%	396	1.6%	255	1.0%	181	0.7%	301	1.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	57	0.1%	37	0.1%	30	0.1%	24	0.1%	50	0.1%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	10,035	4.5%	7,591	3.4%	5,744	2.6%	4,179	1.9%	7,755	3.5%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	1,338	3.1%	880	2.0%	626	1.5%	405	0.9%	794	1.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	1,634	0.7%	1,275	0.5%	983	0.4%	790	0.3%	1,692	0.7%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	4,350	4.0%	3,215	3.0%	2,454	2.3%	1,901	1.8%	3,949	3.7%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	1,198	3.7%	867	2.7%	652	2.0%	418	1.3%	813	2.5%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Number of Treatment Episodes by Duration									
	241-300 Days		301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Episodes	Percent of Total Episodes	Number of Patients	Percent of Total Patients	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	7,414	1.0%	5,608	0.7%	4,113	0.5%	3,449	0.5%	7,394	1.0%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	1,726	2.8%	1,165	1.9%	856	1.4%	666	1.1%	1,249	2.0%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	2,247	4.7%	1,666	3.5%	1,211	2.5%	967	2.0%	1,931	4.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	14,833	0.7%	10,627	0.5%	7,348	0.3%	5,630	0.3%	11,112	0.5%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	20,852	3.8%	15,084	2.8%	11,300	2.1%	8,399	1.5%	15,573	2.9%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	5,451	3.7%	3,814	2.6%	2,748	1.9%	1,972	1.3%	3,841	2.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	24,049	0.7%	17,602	0.5%	12,523	0.4%	9,926	0.3%	20,270	0.6%

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

Table 3b. Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Episodes	Distribution of Treatment Episode Durations, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	738,935	1	30	60	136	730	108.9	125.2
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	200,105	1	30	60	140	730	111.2	127.3
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	3,296,950	1	7	8	30	730	33.1	70.7
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	193,162	1	30	60	129	730	104.6	117.5
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	51,674	1	30	67	163	730	124.9	137.3
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,598	1	7	7	7	709	10.3	21.9
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	145,395	1	30	59	120	730	97.0	111.2
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	24,920	1	30	46	99	730	85.5	97.9
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	39,511	1	7	7	7	730	12.9	33.5
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	224,018	1	30	66	163	730	123.0	136.4
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	43,076	1	30	57	115	729	94.6	110.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	243,486	1	7	7	15	730	28.5	72.0
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	107,417	1	30	60	150	730	117.5	136.9
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	31,989	1	30	60	136	730	109.0	123.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	752,155	1	7	7	30	730	38.8	84.2

Table 3b. Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Episodes	Distribution of Treatment Episode Durations, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	61,181	1	30	30	96	730	89.6	113.8
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	47,704	1	28	76	168	730	126.9	141.8
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	2,244,518	1	7	10	30	730	32.0	65.8
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	541,977	1	30	60	140	730	110.8	128.1
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	148,093	1	30	60	130	730	106.5	123.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	3,287,307	1	7	8	30	730	33.1	70.7

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Number of Patients by First Treatment Episode Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	501,357	231,652	46.2%	102,372	20.4%	53,588	10.7%	33,272	6.6%	22,121	4.4%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	170,813	87,421	51.2%	33,623	19.7%	16,385	9.6%	9,623	5.6%	6,832	4.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	2,571,447	2,316,015	90.1%	123,791	4.8%	43,692	1.7%	24,402	0.9%	16,418	0.6%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	126,400	58,247	46.1%	28,222	22.3%	14,322	11.3%	7,788	6.2%	4,829	3.8%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	42,589	19,553	45.9%	8,242	19.4%	4,651	10.9%	2,837	6.7%	1,935	4.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,232	9,160	99.2%	39	0.4%	11	0.1%	*****	*****	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	97,078	47,487	48.9%	20,952	21.6%	10,278	10.6%	6,056	6.2%	3,797	3.9%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	21,768	13,074	60.1%	4,179	19.2%	1,871	8.6%	998	4.6%	599	2.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	37,126	36,497	98.3%	313	0.8%	99	0.3%	66	0.2%	35	0.1%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	159,433	65,427	41.0%	31,932	20.0%	18,208	11.4%	12,231	7.7%	8,546	5.4%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	37,759	21,660	57.4%	7,250	19.2%	3,330	8.8%	1,782	4.7%	1,215	3.2%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Number of Patients by First Treatment Episode Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	209,532	194,014	92.6%	6,321	3.0%	2,545	1.2%	1,646	0.8%	1,161	0.6%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	74,684	34,212	45.8%	13,798	18.5%	7,557	10.1%	5,170	6.9%	3,587	4.8%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	27,377	14,019	51.2%	5,591	20.4%	2,566	9.4%	1,566	5.7%	1,076	3.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	591,907	519,583	87.8%	30,572	5.2%	12,287	2.1%	7,455	1.3%	5,313	0.9%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	43,961	26,435	60.1%	7,494	17.0%	3,236	7.4%	2,028	4.6%	1,363	3.1%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	41,341	19,126	46.3%	8,368	20.2%	3,969	9.6%	2,440	5.9%	2,008	4.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	1,724,626	1,557,657	90.3%	86,599	5.0%	28,764	1.7%	15,235	0.9%	9,912	0.6%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	375,058	173,490	46.3%	74,162	19.8%	39,270	10.5%	25,484	6.8%	17,292	4.6%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	128,231	67,872	52.9%	25,383	19.8%	11,735	9.2%	6,786	5.3%	4,897	3.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	2,562,228	2,306,868	90.0%	123,752	4.8%	43,681	1.7%	24,395	1.0%	16,415	0.6%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Number of Patients by First Treatment Episode Duration							
	301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	16,698	3.3%	12,813	2.6%	9,731	1.9%	19,110	3.8%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	4,930	2.9%	3,672	2.1%	2,737	1.6%	5,590	3.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	12,470	0.5%	9,240	0.4%	7,584	0.3%	17,835	0.7%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	3,671	2.9%	2,879	2.3%	2,251	1.8%	4,191	3.3%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	1,478	3.5%	1,128	2.6%	901	2.1%	1,864	4.4%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	*****	*****	*****	*****	*****	*****	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	2,653	2.7%	1,939	2.0%	1,423	1.5%	2,493	2.6%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	361	1.7%	235	1.1%	162	0.7%	289	1.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	30	0.1%	24	0.1%	19	0.1%	43	0.1%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	6,695	4.2%	5,127	3.2%	3,786	2.4%	7,481	4.7%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	792	2.1%	579	1.5%	377	1.0%	774	2.0%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Number of Patients by First Treatment Episode Duration							
	301-360 Days		361-420 Days		421-480 Days		481+ Days	
	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	931	0.4%	767	0.4%	634	0.3%	1,513	0.7%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	2,720	3.6%	2,167	2.9%	1,690	2.3%	3,783	5.1%
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	782	2.9%	605	2.2%	384	1.4%	788	2.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	4,209	0.7%	3,172	0.5%	2,718	0.5%	6,598	1.1%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	961	2.2%	701	1.6%	581	1.3%	1,162	2.6%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	1,517	3.7%	1,125	2.7%	913	2.2%	1,875	4.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	7,297	0.4%	5,276	0.3%	4,210	0.2%	9,676	0.6%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	13,027	3.5%	9,934	2.6%	7,480	2.0%	14,919	4.0%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	3,452	2.7%	2,544	2.0%	1,836	1.4%	3,726	2.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	12,467	0.5%	9,239	0.4%	7,581	0.3%	17,830	0.7%

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

Table 4b. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Distribution of First Treatment Episode Duration, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	501,357	1	30	68	165	730	125.8	138.7
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	170,813	1	30	60	148	730	115.1	132.2
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	2,571,447	1	7	7	24	730	30.8	71.0
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	126,400	1	30	67	150	730	120.0	131.5
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	42,589	1	30	70	176	730	131.6	143.8
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,232	1	7	7	7	709	9.9	20.5
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	97,078	1	30	63	143	730	111.8	123.4
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	21,768	1	30	48	102	730	87.0	100.3
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	37,126	1	7	7	7	730	11.9	31.0
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	159,433	1	30	84	198	730	142.3	148.3
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	37,759	1	30	58	120	729	96.7	113.9
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	209,532	1	7	7	10	730	26.0	70.4

Table 4b. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Patients	Distribution of First Treatment Episode Duration, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	74,684	1	30	71	184	730	135.9	150.6
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	27,377	1	30	60	142	730	112.5	128.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	591,907	1	7	7	27	730	37.1	86.0
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	43,961	1	30	30	109	730	96.6	123.3
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	41,341	1	28	78	175	730	131.3	146.9
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	1,724,626	1	7	7	27	730	29.8	65.8
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	375,058	1	30	68	171	730	127.8	140.9
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	128,231	1	30	60	136	730	109.6	127.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	2,562,228	1	7	7	25	730	30.9	71.1

Table 5. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	237,578	31	40	58	96	686	84.9	74.9
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	29,292	31	42	62	109	682	94.1	84.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	725,503	31	47	78	159	721	124.1	113.3
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	66,762	31	40	57	93	679	81.6	70.2
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	9,085	31	42	63	111	682	95.9	87.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	366	31	63	112	211	560	150.7	115.0
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	48,317	31	41	60	99	684	86.1	74.1
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	3,152	31	40	61	105	642	92.8	85.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	2,385	31	54	103	196	665	144.7	120.5
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	64,585	31	39	56	92	686	82.5	73.7
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	5,317	31	42	62	110	669	94.8	84.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	33,954	31	48	83	167	716	128.5	115.0

Table 5. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	32,733	31	40	59	97	669	86.0	75.9
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	4,612	31	42	63	109	644	93.7	83.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	160,248	31	47	78	157	720	122.4	110.5
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	17,220	31	40	61	109	678	93.3	84.5
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	6,363	31	41	60	104	626	89.2	78.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	519,892	31	47	77	158	721	123.6	113.3
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	166,919	31	40	58	97	686	85.8	76.1
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	19,862	31	42	62	108	669	92.9	83.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	725,079	31	47	78	159	721	124.1	113.3

Table 6. Summary of Reasons First Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022¹

	Total Number of Patients	Censoring Reason									
		End of Exposure Episode ²		Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	501,357	354,410	70.7%	1,300	0.3%	41,037	8.2%	0	0.0%	148,226	29.6%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	170,813	125,545	73.5%	3,168	1.9%	10,591	6.2%	0	0.0%	43,026	25.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	2,571,447	2,380,666	92.6%	65,664	2.6%	24,161	0.9%	0	0.0%	134,410	5.2%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	126,400	89,073	70.5%	*****	*****	8,407	6.7%	0	0.0%	37,838	29.9%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	42,589	29,647	69.6%	*****	*****	3,264	7.7%	0	0.0%	13,171	30.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,232	9,128	98.9%	*****	*****	31	0.3%	0	0.0%	111	1.2%
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	97,078	73,392	75.6%	*****	*****	7,719	8.0%	0	0.0%	24,108	24.8%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	21,768	17,519	80.5%	12	0.1%	1,312	6.0%	0	0.0%	4,344	20.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	37,126	36,610	98.6%	19	0.1%	127	0.3%	0	0.0%	547	1.5%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	159,433	105,261	66.0%	70	0.0%	18,103	11.4%	0	0.0%	55,157	34.6%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	37,759	29,352	77.7%	75	0.2%	2,781	7.4%	0	0.0%	8,546	22.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	209,532	200,707	95.8%	470	0.2%	2,525	1.2%	0	0.0%	8,843	4.2%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	74,684	52,415	70.2%	179	0.2%	5,929	7.9%	0	0.0%	22,480	30.1%

Table 6. Summary of Reasons First Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022¹

	Censoring Reason										
	End of Exposure Episode ²			Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	27,377	20,849	76.2%	300	1.1%	1,915	7.0%	0	0.0%	6,379	23.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	591,907	550,949	93.1%	5,047	0.9%	10,656	1.8%	0	0.0%	37,724	6.4%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	43,961	34,386	78.2%	1,040	2.4%	886	2.0%	0	0.0%	8,728	19.9%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	41,341	28,191	68.2%	2,778	6.7%	1,319	3.2%	0	0.0%	10,594	25.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	1,724,626	1,584,089	91.9%	60,132	3.5%	10,835	0.6%	0	0.0%	87,346	5.1%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	375,058	265,397	70.8%	1,297	0.3%	32,632	8.7%	0	0.0%	110,429	29.4%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	128,231	95,902	74.8%	3,165	2.5%	7,327	5.7%	0	0.0%	29,858	23.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	2,562,228	2,371,550	92.6%	65,659	2.6%	24,130	0.9%	0	0.0%	134,300	5.2%

¹A patient's episode may be censored due to more than one reason if they occur on the same date. Therefore, the sum of the reasons for censoring may be greater than the total number of patients.

²Represents episodes censored due to end of the exposure episode. In as-treated analyses, exposure episodes are defined using days supplied as recorded in outpatient pharmacy dispensing records, and episodes end after days supplied are exhausted or a pre-determined maximum episode duration is met. In point exposure analyses, exposure episodes end when a pre-determined maximum episode duration is met.

³Represents episodes censored due to evidence of death. Death data source and completeness varies by Data Partner.

⁴Represents episodes censored due to disenrollment from health plan. Data Partners often artificially assign a "disenrollment" date equal to data end date for members still enrolled on that date. Therefore, a patient may have dual reasons for censoring as "disenrollment" and "end of data" on the same day - this can be interpreted as right-censoring in most cases.

⁵Represents episodes censored due to Data Partner data end date. This end date represents the last day of the most recent year-month in which all of a Data Partner's data tables in the Sentinel Common Data Model have at least 80% of the record count relative to the prior month.

⁶Represents episodes censored due to user-specified study end date.

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

Table 7. Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022¹

	Total Number of Episodes	Censoring Reason									
		End of Exposure Episode ²		Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	738,935	526,822	71.3%	1,451	0.2%	51,478	7.0%	0	0.0%	214,648	29.0%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	200,105	145,358	72.6%	3,466	1.7%	12,058	6.0%	0	0.0%	52,391	26.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	3,296,950	3,009,499	91.3%	77,857	2.4%	32,801	1.0%	0	0.0%	222,260	6.7%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	193,162	136,183	70.5%	*****	*****	10,923	5.7%	0	0.0%	57,811	29.9%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	51,674	35,496	68.7%	*****	*****	3,770	7.3%	0	0.0%	16,451	31.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	9,598	9,481	98.8%	*****	*****	41	0.4%	0	0.0%	125	1.3%
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	145,395	109,710	75.5%	*****	*****	9,790	6.7%	0	0.0%	36,382	25.0%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	24,920	19,792	79.4%	15	0.1%	1,459	5.9%	0	0.0%	5,247	21.1%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	39,511	38,827	98.3%	26	0.1%	154	0.4%	0	0.0%	716	1.8%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	224,018	151,633	67.7%	75	0.0%	21,841	9.7%	0	0.0%	73,837	33.0%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	43,076	33,200	77.1%	84	0.2%	3,112	7.2%	0	0.0%	10,047	23.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	243,486	230,413	94.6%	620	0.3%	3,328	1.4%	0	0.0%	13,091	5.4%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	107,417	76,395	71.1%	211	0.2%	7,365	6.9%	0	0.0%	31,397	29.2%

Table 7. Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from April 1, 2020 to March 31, 2022¹

	Total Number of Episodes	Censoring Reason									
		End of Exposure Episode ²		Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
		Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	31,989	24,087	75.3%	335	1.0%	2,178	6.8%	0	0.0%	7,740	24.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	752,155	689,494	91.7%	6,406	0.9%	14,288	1.9%	0	0.0%	58,869	7.8%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	61,181	47,455	77.6%	1,149	1.9%	1,156	1.9%	0	0.0%	12,843	21.0%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	47,704	32,294	67.7%	3,027	6.3%	1,491	3.1%	0	0.0%	12,649	26.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	2,244,518	2,034,959	90.7%	70,726	3.2%	14,811	0.7%	0	0.0%	148,129	6.6%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	541,977	387,913	71.6%	1,447	0.3%	40,438	7.5%	0	0.0%	155,737	28.7%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	148,093	109,631	74.0%	3,463	2.3%	8,270	5.6%	0	0.0%	35,829	24.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	3,287,307	2,999,978	91.3%	77,850	2.4%	32,760	1.0%	0	0.0%	222,130	6.8%

¹An episode may be censored due to more than one reason if they occur on the same date. Therefore, the sum of the reasons for censoring may be greater than the total number of episodes.

²Represents episodes censored due to end of the exposure episode. In as-treated analyses, exposure episodes are defined using days supplied as recorded in outpatient pharmacy dispensing records, and episodes end after days supplied are exhausted or a pre-determined maximum episode duration is met. In point exposure analyses, exposure episodes end when a pre-determined maximum episode duration is met.

³Represents episodes censored due to evidence of death. Death data source and completeness varies by Data Partner.

⁴Represents episodes censored due to disenrollment from health plan. Data Partners often artificially assign a "disenrollment" date equal to data end date for members still enrolled on that date. Therefore, a patient may have dual reasons for censoring as "disenrollment" and "end of data" on the same day - this can be interpreted as right-censoring in most cases.

⁵Represents episodes censored due to Data Partner data end date. This end date represents the last day of the most recent year-month in which all of a Data Partner's data tables in the Sentinel Common Data Model have at least 80% of the record count relative to the prior month.

⁶Represents episodes censored due to user-specified study end date.

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

Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (May 10, 2024)

Masked DP ID	DP Start Date	DP End Date ¹
DP01	01/01/2007	03/31/2023
DP02	01/01/2008	03/31/2023
DP03	01/01/2000	03/31/2023
DP04	01/01/2000	03/31/2023
DP05	01/01/2000	03/31/2023
DP06	01/01/2008	03/31/2023
DP07	01/01/2004	03/31/2023
DP08	01/01/2000	03/31/2023

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 States and U.S. Territories per Census Bureau (CB) Region

CB region	States and U.S. Territories
Midwest (MW)	Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, Wisconsin
Northeast (NE)	Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont, New Jersey, New York, Pennsylvania
South (S)	Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, West Virginia
West (W)	Arizona, Alaska, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming
Other	American Samoa, Guam, Marshall Islands, Micronesia, Northern Mariana Islands, Palau, Puerto Rico, U.S. Virgin Islands
Invalid	Recorded geographic location does not match any identifiers per the Sentinel Common Data Model definition
Missing	Missing from claims

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

Generic Name	Brand Name
Attention-Deficit Hyperactivity Disorder (ADHD) Stimulant Medications	
amphetamine	Adzenys ER
amphetamine	Adzenys XR-ODT
amphetamine	Dyanavel XR
amphetamine	amphetamine
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
amphetamine sulfate	amphetamine sulfate
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	Focalin XR
dexmethylphenidate HCl	dexmethylphenidate
dextroamphetamine	Xelstrym
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
dextroamphetamine sulfate	Dexedrine
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenzedi
dextroamphetamine sulfate	dextroamphetamine sulfate
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
methamphetamine HCl	Desoxyn
methamphetamine HCl	methamphetamine
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana
methylphenidate	methylphenidate
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	Methylin
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl
serdexmethylphenidate chloride/dexmethylphenidate HCl	Azstarys

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

Generic Name	Brand Name
ADHD Non-Stimulant Medications	
atomoxetine HCl	Strattera
atomoxetine HCl	atomoxetine
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Kapvay
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
guanfacine HCl	Intuniv ER
guanfacine HCl	guanfacine
viloxazine HCl	Qelbree
Schedule II (C-II) Opioid Analgesics	
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
codeine sulfate	codeine sulfate
fentanyl	Duragesic
fentanyl	Subsys
fentanyl	fentanyl
fentanyl HCl	Ionsys
fentanyl citrate	Abstral
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)
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 10-325
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300

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

Generic Name	Brand Name
hydrocodone bitartrate/acetaminophen	Zamcet
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Xylon 10
hydrocodone/ibuprofen	hydrocodone-ibuprofen
hydromorphone HCl	Dilaudid
hydromorphone HCl	Exalgo ER
hydromorphone HCl	hydromorphone
hydromorphone HCl in 0.9 % sodium chloride	hydromorphone in 0.9 % NaCl
hydromorphone HCl in 0.9 % sodium chloride/PF	hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	hydromorphone in D5W (PF)
hydromorphone HCl in sodium chloride, iso-osmotic/PF	hydromorphone(PF)-NaCl,iso-osm
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl/PF	Dilaudid (PF)
hydromorphone HCl/PF	Dilaudid-HP (PF)
hydromorphone HCl/PF	hydromorphone (PF)
hydromorphone HCl/bupivacaine HCl in 0.9% sodium	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
levorphanol tartrate	levorphanol tartrate
meperidine HCl	Demerol
meperidine HCl	meperidine
meperidine HCl in 0.9 % sodium chloride	meperidine in 0.9 % NaCl
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	Dolophine
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
morphine sulfate	Arymo ER
morphine sulfate	Kadian
morphine sulfate	MS Contin
morphine sulfate	MorphaBond ER
morphine sulfate	morphine
morphine sulfate	morphine concentrate
morphine sulfate in 0.9 % sodium chloride	morphine in 0.9 % sodium chlor
morphine sulfate in 0.9 % sodium chloride/PF	morphine (PF) in 0.9 % sod chl
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F
morphine sulfate/PF	Mitigo (PF)
morphine sulfate/PF	morphine (PF)
morphine sulfate/dextrose 5 % in water	morphine in dextrose 5 %
morphine sulfate/dextrose 5%-water/PF	morphine (PF) in dextrose 5 %
morphine sulfate/naltrexone HCl	Embeda

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

Generic Name	Brand Name
oliceridine fumarate	Olinvyk
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	Xartemis XR
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone myristate	Xtampza ER
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
oxymorphone HCl	oxymorphone
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
Amphetamine/Dextroamphetamine Combination Products Immediate Release	
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
Amphetamine/Dextroamphetamine Combination Products Extended Release	
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
Lisdexamfetamine Extended Release	
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
Methylphenidate Single-entity Products Immediate Release	
methylphenidate HCl	Methylin
methylphenidate HCl	Ritalin
methylphenidate HCl	methylphenidate HCl
Methylphenidate Single-entity Products Extended Release	
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana
methylphenidate	methylphenidate
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii

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

Generic Name	Brand Name
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl

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

Generic Name	Brand Name
ADHD Stimulant Medication	
amphetamine	Adzenys ER
amphetamine	Adzenys XR-ODT
amphetamine	Dyanavel XR
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	Focalin XR
dexmethylphenidate HCl	dexmethylphenidate
dextroamphetamine	Xelstrym
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
dextroamphetamine sulfate	Dexedrine
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenzedi
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
methamphetamine HCl	Desoxyn
methamphetamine HCl	methamphetamine
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	Methylin
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl
serdexmethylphenidate chloride/dexmethylphenidate HCl	Azstarys
ADHD Non-Stimulant Medication	
atomoxetine HCl	Strattera
atomoxetine HCl	atomoxetine
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine HCl	Kapvay
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
guanfacine HCl	Intuniv ER

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

Generic Name	Brand Name
guanfacine HCl	guanfacine
viloxazine HCl	Qelbree
Schedule II (C-II) Opioid Analgesics	
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
codeine sulfate	codeine sulfate
fentanyl	Duragesic
fentanyl	Subsys
fentanyl HCl	Ionsys
fentanyl citrate	Abstral
fentanyl citrate	Actiq
fentanyl citrate	Fentora
fentanyl citrate	Lazanda
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)
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 10-325
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300
hydrocodone bitartrate/acetaminophen	Zamcet
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Xylon 10
hydrocodone/ibuprofen	hydrocodone-ibuprofen
hydromorphone HCl	Dilaudid
hydromorphone HCl	Exalgo ER
hydromorphone HCl	hydromorphone
hydromorphone HCl in 0.9 % sodium chloride	hydromorphone in 0.9 % NaCl
hydromorphone HCl in 0.9 % sodium chloride/PF	hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	hydromorphone in D5W (PF)
hydromorphone HCl in sodium chloride, iso-osmotic/PF	hydromorphone(PF)-NaCl,iso-osm

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

Generic Name	Brand Name
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl/PF	Dilaudid (PF)
hydromorphone HCl/PF	Dilaudid-HP (PF)
hydromorphone HCl/PF	hydromorphone (PF)
hydromorphone HCl/bupivacaine HCl in 0.9% sodium	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
levorphanol tartrate	levorphanol tartrate
meperidine HCl	Demerol
meperidine HCl	meperidine
meperidine HCl in 0.9 % sodium chloride	meperidine in 0.9 % NaCl
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	Dolophine
methadone HCl	Methadone IntenSol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
morphine sulfate	Arymo ER
morphine sulfate	Kadian
morphine sulfate	MS Contin
morphine sulfate	MorphaBond ER
morphine sulfate	morphine
morphine sulfate	morphine concentrate
morphine sulfate in 0.9 % sodium chloride	morphine in 0.9 % sodium chlor
morphine sulfate in 0.9 % sodium chloride/PF	morphine (PF) in 0.9 % sod chl
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F
morphine sulfate/PF	Mitigo (PF)
morphine sulfate/PF	morphine (PF)
morphine sulfate/dextrose 5 % in water	morphine in dextrose 5 %
morphine sulfate/dextrose 5%-water/PF	morphine (PF) in dextrose 5 %
morphine sulfate/naltrexone HCl	Embeda
oliceidine fumarate	Olinvyk
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	Xartemis XR
oxycodone HCl/acetaminophen	oxycodone-acetaminophen

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

Generic Name	Brand Name
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone myristate	Xtampza ER
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
oxymorphone HCl	oxymorphone
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
Medication for Opioid-Related Disorders	
buprenorphine	Sublocade
buprenorphine HCl	Probuphine
buprenorphine HCl/naloxone HCl	Bunavail
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
Antidepressant Medication	
amitriptyline HCl	amitriptyline
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amoxapine	amoxapine
brexanolone	Zulresso
bupropion HBr	Aplenzin
bupropion HCl	Forfivo XL
bupropion HCl	Wellbutrin SR
bupropion HCl	Wellbutrin XL
bupropion HCl	bupropion HCl
citalopram hydrobromide	Celexa
citalopram hydrobromide	citalopram
clomipramine HCl	Anafranil
clomipramine HCl	clomipramine
desipramine HCl	Norpramin
desipramine HCl	desipramine
desvenlafaxine	Khedeza
desvenlafaxine	desvenlafaxine
desvenlafaxine fumarate	desvenlafaxine fumarate
desvenlafaxine succinate	Pristiq
desvenlafaxine succinate	desvenlafaxine succinate
dextromethorphan HBr/bupropion HCl	Auvelity
doxepin HCl	Silenor
doxepin HCl	doxepin
duloxetine HCl	Cymbalta
duloxetine HCl	Drizalma Sprinkle
duloxetine HCl	Irenka
duloxetine HCl	duloxetine
duloxetine HCl/lidocaine HCl	Duloxicaine
escitalopram oxalate	Lexapro
escitalopram oxalate	escitalopram oxalate
esketamine HCl	Spravato
fluoxetine HCl	Prozac

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Generic Name	Brand Name
fluoxetine HCl	Prozac Weekly
fluoxetine HCl	Sarafem
fluoxetine HCl	fluoxetine
fluvoxamine maleate	fluvoxamine
imipramine HCl	Tofranil
imipramine HCl	imipramine HCl
imipramine pamoate	imipramine pamoate
isocarboxazid	Marplan
levomilnacipran HCl	Fetzima
maprotiline HCl	maprotiline
milnacipran HCl	Savella
mirtazapine	Remeron
mirtazapine	Remeron SolTab
mirtazapine	mirtazapine
nefazodone HCl	nefazodone
nortriptyline HCl	Pamelor
nortriptyline HCl	nortriptyline
olanzapine/fluoxetine HCl	Symbyax
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
paroxetine HCl	Paxil
paroxetine HCl	Paxil CR
paroxetine HCl	paroxetine HCl
paroxetine mesylate	Pexeva
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
phenelzine sulfate	Nardil
phenelzine sulfate	phenelzine
protriptyline HCl	protriptyline
selegiline	Emsam
sertraline HCl	Zoloft
sertraline HCl	sertraline
tranylcypromine sulfate	Parnate
tranylcypromine sulfate	tranylcypromine
trazodone HCl	trazodone
trimipramine maleate	Surmontil
trimipramine maleate	trimipramine
venlafaxine HCl	Effexor XR
venlafaxine HCl	venlafaxine
venlafaxine besylate	venlafaxine besylate
vilazodone HCl	Viibryd
vilazodone HCl	vilazodone
vortioxetine hydrobromide	Trintellix

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

Generic Name	Brand Name
Anxiolytic or Sedative/Hypnotic Medications	
alprazolam	Alprazolam Intensol
alprazolam	Xanax
alprazolam	Xanax XR
alprazolam	alprazolam
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amobarbital sodium	Amytal
bromelains/melatonin/herbal complex no.233	MidNite PM
buspirone HCl	buspirone
butabarbital sodium	Butisol
calcium carb,hydroxide/soy isoflavone/black cohosh/melatonin	Estroven Nighttime (cal-meltn)
chlordiazepoxide HCl	chlordiazepoxide HCl
clonazepam	Klonopin
clonazepam	clonazepam
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	clorazepate dipotassium
daridorexant HCl	Quviviq
dexmedetomidine HCl	Igalmi
dexmedetomidine HCl	Precedex
dexmedetomidine HCl	dexmedetomidine
dexmedetomidine HCl in 0.9 % sodium chloride	Precedex in 0.9 % sodium chlor
dexmedetomidine HCl in 0.9 % sodium chloride	dexmedetomidine in 0.9 % NaCl
dexmedetomidine in 5 % dextrose in water	dexmedetomidine in dextrose 5%
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
diazepam	diazepam
doxepin HCl	Silenor
doxepin HCl	doxepin
estazolam	estazolam
eszopiclone	Lunesta
eszopiclone	eszopiclone
ethyl alcohol/herbal drugs	Lydia Pinkham Herbal
flurazepam HCl	flurazepam
hydroxyzine HCl	hydroxyzine HCl
hydroxyzine pamoate	Vistaril
hydroxyzine pamoate	hydroxyzine pamoate
lemborexant	Dayvigo
lorazepam	Ativan
lorazepam	Lorazepam Intensol
lorazepam	Loreev XR
lorazepam	lorazepam
lorazepam in 0.9 % sodium chloride	lorazepam in 0.9% sod chloride
lorazepam in 5 % dextrose and water	lorazepam in dextrose 5 %
melatonin	Children's Sleep (melatonin)
melatonin	Kids Melatonin
melatonin	Meladox
melatonin	Melatin

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

Generic Name	Brand Name
melatonin	MelatoninMax
melatonin	VitaJoy Melatonin
melatonin	melatonin
melatonin/5-HTP/valerian/folic acid/dietary combination 28	Hypnosom
melatonin/5-Hydroxytryptophan/tryptophan/B6/magnesium oxide	Somnicin
melatonin/5-hydroxytryptophan/theanine/lemon balm leaf xt	Relax Night Calm
melatonin/GABA/5-HTP/theanine/magnesium citrate,oxide/herbs	Sopordren
melatonin/GABA/tryptophan/valerian root/hops/lemon balm	Sleep Optimizer
melatonin/ascorbic acid/vitamin D3/zinc citrate/elderberry	Kids Sleep Immune Health
melatonin/ascorbic acid/vitamin D3/zinc citrate/elderberry	Sleep Immune Health
melatonin/gamma-aminobutyric acid/herbal complex no.183	Sinralyne-PM
melatonin/gamma-aminobutyric acid/valerian	Medi-Doze
melatonin/genistein/herbal complex no.233	Midnite for Menopause
melatonin/herbal complex no.184	Sleep Caps
melatonin/herbal complex no.184	melatonin-herbal complex #184
melatonin/herbal complex no.233	MidNite
melatonin/lemon balm leaf extract	melatonin-lemon balm leaf extr
melatonin/mag carbonate,glycinate/pot	Soothing Night
melatonin/magnesium citrate	SlowMag Mg Calm-Sleep
melatonin/passion flower/lemon balm	Unisom Simple Slumbers
melatonin/pyridoxal phosphate	Melatonin-B6 (pyridoxal phos)
melatonin/pyridoxal phosphate	melatonin-pyridoxal phos (B6)
melatonin/pyridoxine	Melatonin (with B6)
melatonin/pyridoxine	melatonin-pyridoxine (vit B6)
melatonin/pyridoxine HCl (vit B6)	melatonin-pyridoxine HCl (B6)
melatonin/theanine	melatonin-theanine
melatonin/theanine/lemon balm/chamomile flower/lavender	Kids Sleep Calm
melatonin/theanine/lemon balm/chamomile flower/lavender	Sleep Calm
melatonin/tryptophan	Restone
melatonin/tryptophan	Wrestone
melatonin/tryptophan/valerian/chamomile/niacin/inositol/B6	Toprophan
meprobamate	meprobamate
midazolam HCl	midazolam
oxazepam	oxazepam
pentobarbital sodium	Nembutal Sodium
pentobarbital sodium	pentobarbital sodium
phenobarbital	phenobarbital
phenobarbital sodium	phenobarbital sodium
phenobarbital sodium in 0.9 % sodium chloride	phenobarbital in 0.9 % sod chl
quazepam	Doral
quazepam	quazepam
ramelteon	Rozerem
ramelteon	ramelteon
secobarbital sodium	Seconal Sodium
suvorexant	Belsomra
tasimelteon	Hetlioz

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Generic Name	Brand Name
tasimelteon	Hetlioz LQ
tasimelteon	tasimelteon
temazepam	Restoril
temazepam	temazepam
triazolam	Halcion
triazolam	triazolam
tryptophan	tryptophan
valerian root extract	valerian root extract
valerian root extract/hops	valerian root extract-hops
valerian root/valerian root extract	valerian root-valerian root xt
valerian rt/passion flower/hops/cherry/magnesium comb/potass	SynovX Calm
valerian/passion flower/hops/lemon balm	valerian-flower-hops-lemon
vit B/folic acid/calcium/soy xt/black cohosh xt/melatonin	Complete Balance Menopause Rlf
zaleplon	Sonata
zaleplon	zaleplon
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	Zolpimist
zolpidem tartrate	zolpidem
Antipsychotic Medication	
aripiprazole	Abilify
aripiprazole	Abilify Asimtufii
aripiprazole	Abilify Maintena
aripiprazole	Abilify MyCite
aripiprazole	Abilify MyCite Maintenance Kit
aripiprazole	Abilify MyCite Starter Kit
aripiprazole	aripiprazole
aripiprazole lauroxil	Aristada
aripiprazole lauroxil, submicronized	Aristada Initio
asenapine	Secuado
asenapine maleate	Saphris
asenapine maleate	asenapine maleate
brexpiprazole	Rexulti
cariprazine HCl	Vraylar
chlorpromazine HCl	chlorpromazine
clozapine	Clozaril
clozapine	FazaClo
clozapine	Versacloz
clozapine	clozapine
fluphenazine HCl	fluphenazine HCl
fluphenazine decanoate	fluphenazine decanoate
haloperidol	haloperidol
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	haloperidol decanoate
haloperidol lactate	Haldol
haloperidol lactate	haloperidol lactate

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

Generic Name	Brand Name
iloperidone	Fanapt
loxapine	Adasuve
loxapine succinate	loxapine succinate
lumateperone tosylate	Caplyta
lurasidone HCl	Latuda
lurasidone HCl	lurasidone
molindone HCl	molindone
olanzapine	Zyprexa
olanzapine	Zyprexa Zydis
olanzapine	olanzapine
olanzapine pamoate	Zyprexa Relprevv
olanzapine/fluoxetine HCl	Symbyax
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
olanzapine/samidorphan malate	Lybalvi
paliperidone	Invega
paliperidone	paliperidone
paliperidone palmitate	Invega Hafyera
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
perphenazine	perphenazine
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
pimavanserin tartrate	Nuplazid
pimozide	Orap
pimozide	pimozide
prochlorperazine maleate	Compazine
prochlorperazine maleate	prochlorperazine maleate
quetiapine fumarate	Seroquel
quetiapine fumarate	Seroquel XR
quetiapine fumarate	quetiapine
risperidone	Perseris
risperidone	Risperdal
risperidone	Risperdal M-TAB
risperidone	Uzedly
risperidone	risperidone
risperidone microspheres	Risperdal Consta
risperidone microspheres	Rykindo
thioridazine HCl	thioridazine
thiothixene	thiothixene
trifluoperazine HCl	trifluoperazine
ziprasidone HCl	Geodon
ziprasidone HCl	ziprasidone HCl
ziprasidone mesylate	Geodon
ziprasidone mesylate	ziprasidone mesylate
Mood Stabilizers	
carbamazepine	Carbatrol
carbamazepine	Epitol
carbamazepine	Equetro
carbamazepine	Tegretol

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

Generic Name	Brand Name
carbamazepine	Tegretol XR
carbamazepine	carbamazepine
divalproex sodium	Depakote
divalproex sodium	Depakote ER
divalproex sodium	Depakote Sprinkles
divalproex sodium	divalproex
lamotrigine	Lamictal
lamotrigine	Lamictal ODT
lamotrigine	Lamictal ODT Starter (Blue)
lamotrigine	Lamictal ODT Starter (Green)
lamotrigine	Lamictal ODT Starter (Orange)
lamotrigine	Lamictal Starter (Blue) Kit
lamotrigine	Lamictal Starter (Green) Kit
lamotrigine	Lamictal Starter (Orange) Kit
lamotrigine	Lamictal XR
lamotrigine	Lamictal XR Starter (Blue)
lamotrigine	Lamictal XR Starter (Green)
lamotrigine	Lamictal XR Starter (Orange)
lamotrigine	Subvenite
lamotrigine	Subvenite Starter (Blue) Kit
lamotrigine	Subvenite Starter (Green) Kit
lamotrigine	Subvenite Starter (Orange) Kit
lamotrigine	lamotrigine
lithium carbonate	Lithobid
lithium carbonate	lithium carbonate
lithium citrate	lithium citrate
oxcarbazepine	Oxtellar XR
oxcarbazepine	Trileptal
oxcarbazepine	oxcarbazepine
Any Substance-Related Disorders	
Belbuca	buprenorphine HCl
Brixadi	buprenorphine
Buprenex	buprenorphine HCl
Butrans	buprenorphine
buprenorphine	Brixadi
buprenorphine	Sublocade
buprenorphine	buprenorphine
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
buprenorphine-naloxone	buprenorphine HCl/naloxone HCl
Opioid-Related Disorders	
Belbuca	buprenorphine HCl
Brixadi	buprenorphine
Buprenex	buprenorphine HCl
Butrans	buprenorphine
buprenorphine	Brixadi

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

Generic Name	Brand Name
buprenorphine	Sublocade
buprenorphine	buprenorphine
buprenorphine HCl	buprenorphine HCl
buprenorphine HCl/naloxone HCl	Suboxone
buprenorphine HCl/naloxone HCl	Zubsolv
buprenorphine HCl/naloxone HCl	buprenorphine-naloxone
buprenorphine-naloxone	buprenorphine HCl/naloxone HCl
Amphetamine Single-entity Products Immediate Release	
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
amphetamine sulfate	amphetamine sulfate
Amphetamine Single-entity Products Extended Release Oral Solid	
amphetamine	Adzenys XR-ODT
amphetamine	Dyanavel XR
Amphetamine Single-entity Products Extended Release Oral Liquid	
amphetamine	Adzenys ER
amphetamine	Dyanavel XR
amphetamine	amphetamine
Dextroamphetamine Single-entity Products Immediate Release	
dextroamphetamine sulfate	Dexedrine
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenzedi
dextroamphetamine sulfate	dextroamphetamine sulfate
Dextroamphetamine Single-entity Products Extended Release	
dextroamphetamine	Xelstrym
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	dextroamphetamine sulfate
Amphetamine/Dextroamphetamine Combination Products Immediate Release	
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
Amphetamine/Dextroamphetamine Combination Products Extended Release	
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine

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Generic Name	Brand Name
Lisdexamfetamine Extended Release	
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
Methamphetamine Single-entity Products Immediate Release	
methamphetamine HCl	Desoxyn
methamphetamine HCl	methamphetamine
Methylphenidate Single-entity Products Immediate Release	
methylphenidate HCl	Methylin
methylphenidate HCl	Ritalin
methylphenidate HCl	methylphenidate HCl
Methylphenidate Single-entity Products Extended Release Oral Solid	
methylphenidate	Cotempla XR-ODT
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl
Methylphenidate Single-entity Products Extended Release Oral Liquid	
methylphenidate HCl	Quillivant XR
Methylphenidate Single-entity Products Extended Release Transdermal Patch	
methylphenidate	Daytrana
methylphenidate	methylphenidate
Dexmethylphenidate Single-entity Products Immediate Release	
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	dexmethylphenidate
Dexmethylphenidate Single-entity Products Extended Release	
dexmethylphenidate HCl	Focalin XR
dexmethylphenidate HCl	dexmethylphenidate
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	
serdexmethylphenidate chloride/dexmethylphenidate HCl	Azstarys
Any ADHD Stimulant API Immediate Release	
amphetamine sulfate	Evekeo
amphetamine sulfate	Evekeo ODT
amphetamine sulfate	amphetamine sulfate
dexmethylphenidate HCl	Focalin
dexmethylphenidate HCl	dexmethylphenidate
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
dextroamphetamine sulfate	Dexedrine
dextroamphetamine sulfate	ProCentra
dextroamphetamine sulfate	Zenzedi
dextroamphetamine sulfate	dextroamphetamine sulfate
methamphetamine HCl	Desoxyn

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Generic Name	Brand Name
methamphetamine HCl	methamphetamine
methylphenidate HCl	Methylin
methylphenidate HCl	Ritalin
methylphenidate HCl	methylphenidate HCl
serdexmethylphenidate chloride/dexmethylphenidate HCl	Azstarys
Any ADHD Stimulant API Extended Release	
amphetamine	Adzenys ER
amphetamine	Adzenys XR-ODT
amphetamine	Dyanavel XR
amphetamine	amphetamine
dexmethylphenidate HCl	Focalin XR
dexmethylphenidate HCl	dexmethylphenidate
dextroamphetamine	Xelstrym
dextroamphetamine sulf-saccharate/amphetamine sulf-	Adderall XR
dextroamphetamine sulf-saccharate/amphetamine sulf-	Mydayis
dextroamphetamine sulf-saccharate/amphetamine sulf-	dextroamphetamine-amphetamine
dextroamphetamine sulfate	Dexedrine Spansule
dextroamphetamine sulfate	dextroamphetamine sulfate
lisdexamfetamine dimesylate	Vyvanse
lisdexamfetamine dimesylate	lisdexamfetamine
methylphenidate	Cotempla XR-ODT
methylphenidate	Daytrana
methylphenidate	methylphenidate
methylphenidate HCl	Adhansia XR
methylphenidate HCl	Aptensio XR
methylphenidate HCl	Concerta
methylphenidate HCl	Jornay PM
methylphenidate HCl	Metadate CD
methylphenidate HCl	Metadate ER
methylphenidate HCl	QuilliChew ER
methylphenidate HCl	Quillivant XR
methylphenidate HCl	Relexxii
methylphenidate HCl	Ritalin LA
methylphenidate HCl	methylphenidate HCl
Atomoxetine Immediate Release	
atomoxetine HCl	Strattera
atomoxetine HCl	atomoxetine
Guanfacine Extended Release	
guanfacine HCl	Intuniv ER
guanfacine HCl	guanfacine
Viloxazine Extended Release	
viloxazine HCl	Qelbree

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Generic Name	Brand Name
Clonidine Extended Release	
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Kapvay
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
Any ADHD Non-Stimulant API Extended Release	
clonidine	Catapres-TTS-1
clonidine	Catapres-TTS-2
clonidine	Catapres-TTS-3
clonidine	clonidine
clonidine HCl	Kapvay
clonidine HCl	Nexiclon XR
clonidine HCl	clonidine HCl
guanfacine HCl	Intuniv ER
guanfacine HCl	guanfacine
viloxazine HCl	Qelbree
Codeine	
codeine sulfate	codeine sulfate
Fentanyl	
fentanyl	Duragesic
fentanyl	Subsys
fentanyl	fentanyl
fentanyl HCl	Ionsys
fentanyl citrate	Abstral
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)
Hydrocodone	
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
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 10-325
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325

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

Generic Name	Brand Name
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300
hydrocodone bitartrate/acetaminophen	Zamcet
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Xylon 10
hydrocodone/ibuprofen	hydrocodone-ibuprofen
Hydromorphone	
hydromorphone HCl	Dilaudid
hydromorphone HCl	Exalgo ER
hydromorphone HCl	hydromorphone
hydromorphone HCl in 0.9 % sodium chloride	hydromorphone in 0.9 % NaCl
hydromorphone HCl in 0.9 % sodium chloride/PF	hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	hydromorphone in D5W (PF)
hydromorphone HCl in sodium chloride, iso-osmotic/PF	hydromorphone(PF)-NaCl,iso-osm
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl/PF	Dilaudid (PF)
hydromorphone HCl/PF	Dilaudid-HP (PF)
hydromorphone HCl/PF	hydromorphone (PF)
hydromorphone HCl/bupivacaine HCl in 0.9% sodium	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl
Morphine	
morphine sulfate	Arymo ER
morphine sulfate	Kadian
morphine sulfate	MS Contin
morphine sulfate	MorphaBond ER
morphine sulfate	morphine
morphine sulfate	morphine concentrate
morphine sulfate in 0.9 % sodium chloride	morphine in 0.9 % sodium chlor
morphine sulfate in 0.9 % sodium chloride/PF	morphine (PF) in 0.9 % sod chl
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F
morphine sulfate/PF	Mitigo (PF)
morphine sulfate/PF	morphine (PF)
morphine sulfate/dextrose 5 % in water	morphine in dextrose 5 %
morphine sulfate/dextrose 5%-water/PF	morphine (PF) in dextrose 5 %
morphine sulfate/naltrexone HCl	Embeda

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

Generic Name	Brand Name
Oxycodone	
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
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	Xartemis XR
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone myristate	Xtampza ER
Oxymorphone	
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
oxymorphone HCl	oxymorphone
Other C-II Opioid Analgesics	
levorphanol tartrate	levorphanol tartrate
meperidine HCl	Demerol
meperidine HCl	meperidine
meperidine HCl in 0.9 % sodium chloride	meperidine in 0.9 % NaCl
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	Dolophine
methadone HCl	Methadone Intensol
methadone HCl	Methadose
methadone HCl	methadone
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
oliceidine fumarate	Olinvyk
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
Benzodiazapine Medications	
alprazolam	Alprazolam Intensol
alprazolam	Niravam
alprazolam	Xanax
alprazolam	Xanax XR
alprazolam	alprazolam
alprazolam/dietary supplement,misc combo no.17	Gabazolamine
amitriptyline HCl/chlordiazepoxide	Limbitrol
amitriptyline HCl/chlordiazepoxide	Limbitrol DS
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide

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

Generic Name	Brand Name
chlordiazepoxide HCl	Librium
chlordiazepoxide HCl	Poxi
chlordiazepoxide HCl	chlordiazepoxide HCl
chlordiazepoxide/clidinium bromide	Librax (with clidinium)
chlordiazepoxide/clidinium bromide	chlordiazepoxide-clidinium
clobazam	Onfi
clobazam	Sympazan
clobazam	clobazam
clonazepam	Ceberclon
clonazepam	Klonopin
clonazepam	clonazepam
clorazepate dipotassium	Gen-XENE
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	Tranxene-SD
clorazepate dipotassium	clorazepate dipotassium
clozapine	Clozaril
clozapine	FazaClo
clozapine	Versacloz
clozapine	clozapine
diazepam	Diastat
diazepam	Diastat AcuDial
diazepam	Diastat Pediatric
diazepam	Diastat Universal
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
diazepam	diazepam
diazepam (in soybean oil)	Dizac
estazolam	Prosom
estazolam	estazolam
flumazenil	Romazicon
flumazenil	flumazenil
flurazepam HCl	Dalmane
flurazepam HCl	flurazepam
halazepam	Paxipam
lorazepam	Ativan
lorazepam	Lorazepam Intensol
lorazepam	Loreev XR
lorazepam	lorazepam
lorazepam in 0.9 % sodium chloride	lorazepam in 0.9% sod chloride
lorazepam in 5 % dextrose and water	lorazepam in dextrose 5 %
midazolam	Nayzilam
midazolam HCl	Versed
midazolam HCl	midazolam
oxazepam	Serax
oxazepam	oxazepam
quazepam	Doral
quazepam	quazepam

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

Generic Name	Brand Name
temazepam	Restoril
temazepam	temazepam
temazepam/dietary supplement no.8	Strazepam
triazolam	Halcion
triazolam	triazolam
Nonbenzodiazepine Anxiolytics or Sedatives or Hypnotics	
buspirone HCl	buspirone
butabarbital sodium	Butisol
daridorexant HCl	Quviviq
doxepin HCl	Silenor
doxepin HCl	doxepin
eszopiclone	Lunesta
eszopiclone	eszopiclone
lemborexant	Dayvigo
meprobamate	meprobamate
ramelteon	Rozerem
ramelteon	ramelteon
secobarbital sodium	Seconal Sodium
suvorexant	Belsomra
tasimelteon	Hetlioz
tasimelteon	Hetlioz LQ
tasimelteon	tasimelteon
zaleplon	Sonata
zaleplon	zaleplon
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	Zolpimist
zolpidem tartrate	zolpidem
All Opioid Analgesics	
hydromorphone HCl	hydromorphone
hydromorphone HCl/PF	hydromorphone (PF)
hydromorphone HCl in 0.9 % sodium chloride/PF	hydromorphone (PF)-0.9 % NaCl
hydromorphone HCl	Exalgo ER
hydromorphone HCl	Dilaudid
hydromorphone HCl/PF	Dilaudid-HP (PF)
hydromorphone HCl in 0.9 % sodium chloride	hydromorphone in 0.9 % NaCl
hydromorphone HCl in dextrose 5 %-water/PF	hydromorphone in D5W (PF)
hydromorphone HCl in sterile water/PF	hydromorphone (PF) in water
hydromorphone HCl in sodium chloride, iso-osmotic/PF	hydromorphone(PF)-NaCl,iso-osm
hydromorphone HCl/PF	Dilaudid (PF)
morphine sulfate	Kadian
morphine sulfate	morphine
morphine sulfate	morphine concentrate
morphine sulfate/PF	morphine (PF)
morphine sulfate/PF	Duramorph (PF)
morphine sulfate/PF	Infumorph P/F

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

Generic Name	Brand Name
morphine sulfate in 0.9 % sodium chloride	morphine in 0.9 % sodium chlor
morphine sulfate in 0.9 % sodium chloride/PF	morphine (PF) in 0.9 % sod chl
morphine sulfate	MS Contin
morphine sulfate/dextrose 5 % in water	morphine in dextrose 5 %
morphine sulfate/naltrexone HCl	Embeda
morphine sulfate/dextrose 5%-water/PF	morphine (PF) in dextrose 5 %
morphine sulfate	MorphaBond ER
morphine sulfate/PF	Mitigo (PF)
morphine sulfate	Arymo ER
oxycodone HCl	oxycodone
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone HCl/acetaminophen	Xartemis XR
oxycodone HCl	Roxicodone
oxycodone HCl/acetaminophen	Primlev
oxycodone myristate	Xtampza ER
oxycodone HCl/acetaminophen	Endocet
oxycodone HCl	OxyContin
oxycodone HCl/acetaminophen	Percocet
oxycodone HCl	Oxaydo
oxycodone HCl	RoxyBond
oxycodone HCl/acetaminophen	Nalocet
oxycodone HCl/acetaminophen	Prolate
oxymorphone HCl	oxymorphone
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
codeine sulfate	codeine sulfate
butalbital/acetaminophen/caffeine/codeine phosphate	butalbital-acetaminop-caf-cod
acetaminophen with codeine phosphate	acetaminophen-codeine
codeine phosphate/guaifenesin	codeine-guaifenesin
promethazine/phenylephrine HCl/codeine	Promethazine VC-Codeine
promethazine HCl/codeine	promethazine-codeine
carisoprodol/aspirin/codeine phosphate	carisoprodol-aspirin-codeine
acetaminophen with codeine phosphate	Capital with Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine
codeine phosphate/guaifenesin	Cheratussin AC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Cheratussin DAC
codeine phosphate/guaifenesin	Iophen C-NR
pseudoephedrine HCl/codeine/chlorpheniramine	Phenylhistine DH
codeine phosphate/guaifenesin	Mar-Cof CG
rompheniramine maleate/pseudoephedrine HCl/codeine phosphate	Mar-Cof BP
codeine phosphate/guaifenesin	Robafen AC
codeine phosphate/guaifenesin	M-Clear WC
lexbrompheniramine maleate/pseudoephedrine HCl/codeine phosphate	M-End Max D
brompheniramine maleate/phenylephrine HCl/codeine phosphate	M-END PE
pseudoephedrine HCl/codeine phosphate/guaifenesin	Guaifenesin DAC

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

Generic Name	Brand Name
codeine phosphate/guaifenesin	Guaifenesin AC
brompheniramine maleate/pseudoephedrine HCl/codeine phosphate/guaifenesin	Rydex
codeine phosphate/guaifenesin	Ninjacof-XG
triprolidine HCl/phenylephrine HCl/codeine phosphate	Histex-AC
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	CapCof
codeine phosphate/guaifenesin	RelCof C
acetaminophen/caffeine/dihydrocodeine bitartrate	acetaminophen-caff-dihydrocod
chlorpheniramine maleate/codeine phosphate	Zodryl AC 25
chlorpheniramine maleate/codeine phosphate	Zodryl AC 30
chlorpheniramine maleate/codeine phosphate	Zodryl AC 35
chlorpheniramine maleate/codeine phosphate	Zodryl AC 40
chlorpheniramine maleate/codeine phosphate	Zodryl AC 50
chlorpheniramine maleate/codeine phosphate	Zodryl AC 60
chlorpheniramine maleate/codeine phosphate	Zodryl AC 80
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 25
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 30
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 35
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 40
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 50
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 60
chlorpheniramine maleate/pseudoephedrine HCl/codeine phosphate	Zodryl DAC 80
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 25
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 30
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 35
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 40
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 50
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 60
pseudoephedrine HCl/codeine phosphate/guaifenesin	Zodryl DEC 80
aspirin/caffeine/dihydrocodeine bitartrate	Synalgos-DC
acetaminophen with codeine phosphate	Tylenol-Codeine #3
codeine phosphate/guaifenesin	GuaiaTussin AC
promethazine/phenylephrine HCl/codeine phosphate/guaifenesin	promethazine-phenyleph-codeine
codeine phosphate/guaifenesin	Virtussin AC
acetaminophen with codeine phosphate	Tylenol-Codeine #4
brompheniramine maleate/phenylephrine HCl/codeine phosphate	Poly-Tussin AC
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
butalbital/acetaminophen/caffeine/codeine phosphate	Fioricet with Codeine
pseudoephedrine HCl/codeine phosphate/guaifenesin	Tusnel C
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
aspirin/caffeine/dihydrocodeine bitartrate	aspirin-caffeine-dihydrocodein
codeine phosphate/guaifenesin	G Tussin AC
chlorpheniramine maleate/codeine phosphate	Z-Tuss AC
chlorpheniramine maleate/phenylephrine HCl/codeine phosphate	Maxi-Tuss CD
codeine phosphate/guaifenesin	Maxi-Tuss AC
acetaminophen/caffeine/dihydrocodeine bitartrate	Trezix
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
dexchlorpheniramine maleate/phenylephrine HCl/codeine phosphate/guaifenesin	Pro-Red AC (w/ dexchlorphenir)
pseudoephedrine HCl/codeine phosphate/guaifenesin	Lortuss EX

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

Generic Name	Brand Name
codeine polistirex/chlorpheniramine polistirex	Tuzistra XR
pseudoephedrine HCl/codeine phosphate/guaifenesin	Virtussin DAC
codeine phosphate/guaifenesin	Coditussin AC
pseudoephedrine HCl/codeine phosphate/guaifenesin	Coditussin DAC
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor(acetam-caff-dihydrocod)
acetaminophen/caffeine/dihydrocodeine bitartrate	Dvorah
chlorpheniramine maleate/codeine phosphate	Tuxarin ER
fentanyl citrate	fentanyl citrate
fentanyl	fentanyl
fentanyl citrate/PF	fentanyl citrate (PF)
fentanyl citrate	Lazanda
fentanyl citrate in 0.9 % sodium chloride/PF	fentanyl citrate (PF)-0.9%NaCl
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)
fentanyl	Subsys
fentanyl citrate	Abstral
fentanyl	Duragesic
fentanyl citrate	Actiq
fentanyl citrate	Fentora
fentanyl HCl	Ionsys
fentanyl citrate in dextrose 5% in water/PF	fentanyl citrate in D5W (PF)
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES
hydrocodone bitartrate/acetaminophen	Vicodin HP
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone bitartrate/pseudoephedrine HCl/guaifenesin	Hycofenix
hydrocodone bitartrate/guaifenesin	Flowtuss
hydrocodone polistirex/chlorpheniramine polistirex	TussiCaps
hydrocodone bitartrate/homatropine methylbromide	Hydromet
hydrocodone bitartrate/acetaminophen	Zamiset
hydrocodone/ibuprofen	hydrocodone-ibuprofen
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
hydrocodone bitartrate/acetaminophen	Lortab Elixir
hydrocodone bitartrate	hydrocodone bitartrate
hydrocodone polistirex/chlorpheniramine polistirex	Tussionex Pennkinetic ER
hydrocodone bitartrate/acetaminophen	Lortab 5-325
hydrocodone bitartrate/acetaminophen	Lortab 7.5-325
hydrocodone bitartrate/acetaminophen	Lortab 10-325
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Xylon 10
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate	Hysingla ER
hydrocodone bitartrate/acetaminophen	Xodol 10/300
hydrocodone bitartrate/acetaminophen	Xodol 5/300

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

Generic Name	Brand Name
hydrocodone bitartrate/acetaminophen	Xodol 7.5/300
hydrocodone/ibuprofen	Reprexain
hydrocodone bitartrate/homatropine methylbromide	Tussigon
pseudoephedrine HCl/hydrocodone bitartrate	Rezira
hydrocodone bitart/chlorpheniramine maleate/pseudoephedrine	Zutripo
hydrocodone bitartrate/chlorpheniramine maleate	Vituz
hydrocodone bitartrate/homatropine methylbromide	Hycodan (with homatropine)
hydrocodone bitartrate/homatropine methylbromide	Hycodan
hydrocodone bitartrate	Zohydro ER
hydrocodone bitartrate/guaifenesin	Obredon
hydromorphone HCl/bupivacaine HCl in 0.9% sodium chloride/PF	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl
methadone HCl	methadone
levorphanol tartrate	levorphanol tartrate
butorphanol tartrate	butorphanol
meperidine HCl	meperidine
methadone HCl	Methadone Intensol
methadone HCl	Dolophine
methadone HCl	Diskets
tramadol HCl	tramadol
buprenorphine	buprenorphine
buprenorphine HCl	buprenorphine HCl
tramadol HCl/acetaminophen	tramadol-acetaminophen
methadone HCl	Methadose
meperidine HCl/PF	Demerol (PF)
meperidine HCl	Demerol
nalbuphine HCl	nalbuphine
pentazocine lactate	Talwin
alfentanil HCl	alfentanil
pentazocine HCl/naloxone HCl	pentazocine-naloxone
meperidine HCl/PF	meperidine (PF)
buprenorphine HCl	Buprenex
meperidine HCl in 0.9 % sodium chloride/PF	meperidine (PF) in 0.9 % NaCl
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
tramadol HCl	Ultram ER
buprenorphine	Butrans
tramadol HCl/acetaminophen	Ultracet
tramadol HCl	Ultram
difelikefalin acetate	Korsuva
buprenorphine HCl	Belbuca
methadone hydrochloride in 0.9 % sodium chloride	methadone in 0.9 % sod.chlorid
meperidine HCl in 0.9 % sodium chloride	meperidine in 0.9 % NaCl
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
tramadol HCl/celecoxib	Seglantis
tramadol HCl	ConZip
oliceidine fumarate	Olinvyk
tramadol HCl	Qdolo

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
Non-Cancer or Chronic Pain-Related Conditions			
G89.0	Central pain syndrome	Diagnosis	ICD-10-CM
64615	Chemodenervation of muscle(s); muscle(s) innervated by facial, trigeminal, cervical spinal and accessory nerves, bilateral (eg, for chronic migraine)	Procedure	CPT-4
B02.2	Zoster with other nervous system involvement	Diagnosis	ICD-10-CM
B02.21	Postherpetic geniculate ganglionitis	Diagnosis	ICD-10-CM
B02.22	Postherpetic trigeminal neuralgia	Diagnosis	ICD-10-CM
B02.23	Postherpetic polyneuropathy	Diagnosis	ICD-10-CM
B02.24	Postherpetic myelitis	Diagnosis	ICD-10-CM
B02.29	Other postherpetic nervous system involvement	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
D57.20	Sickle-cell/Hb-C disease without 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
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia 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 with crisis, unspecified	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
D57.80	Other sickle-cell disorders without 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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
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
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	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
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic	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
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	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
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	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
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
F45.42	Pain disorder with related psychological factors	Diagnosis	ICD-10-CM
G43	Migraine	Diagnosis	ICD-10-CM
G43.0	Migraine without aura	Diagnosis	ICD-10-CM
G43.00	Migraine without aura, not intractable	Diagnosis	ICD-10-CM
G43.001	Migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.009	Migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.01	Migraine without aura, intractable	Diagnosis	ICD-10-CM
G43.011	Migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.019	Migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.1	Migraine with aura	Diagnosis	ICD-10-CM
G43.10	Migraine with aura, not intractable	Diagnosis	ICD-10-CM
G43.101	Migraine with aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.109	Migraine with aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.11	Migraine with aura, intractable	Diagnosis	ICD-10-CM
G43.111	Migraine with aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.119	Migraine with aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.4	Hemiplegic migraine	Diagnosis	ICD-10-CM
G43.40	Hemiplegic migraine, not intractable	Diagnosis	ICD-10-CM
G43.401	Hemiplegic migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.409	Hemiplegic migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
G43.41	Hemiplegic migraine, intractable	Diagnosis	ICD-10-CM
G43.411	Hemiplegic migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.419	Hemiplegic migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.5	Persistent migraine aura without cerebral infarction	Diagnosis	ICD-10-CM
G43.50	Persistent migraine aura without cerebral infarction, not intractable	Diagnosis	ICD-10-CM
G43.501	Persistent migraine aura without cerebral infarction, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.509	Persistent migraine aura without cerebral infarction, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.51	Persistent migraine aura without cerebral infarction, intractable	Diagnosis	ICD-10-CM
G43.511	Persistent migraine aura without cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.519	Persistent migraine aura without cerebral infarction, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.6	Persistent migraine aura with cerebral infarction	Diagnosis	ICD-10-CM
G43.60	Persistent migraine aura with cerebral infarction, not intractable	Diagnosis	ICD-10-CM
G43.601	Persistent migraine aura with cerebral infarction, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.609	Persistent migraine aura with cerebral infarction, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.61	Persistent migraine aura with cerebral infarction, intractable	Diagnosis	ICD-10-CM
G43.611	Persistent migraine aura with cerebral infarction, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.619	Persistent migraine aura with cerebral infarction, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.7	Chronic migraine without aura	Diagnosis	ICD-10-CM
G43.70	Chronic migraine without aura, not intractable	Diagnosis	ICD-10-CM
G43.701	Chronic migraine without aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.709	Chronic migraine without aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.71	Chronic migraine without aura, intractable	Diagnosis	ICD-10-CM
G43.711	Chronic migraine without aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.719	Chronic migraine without aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.8	Other migraine	Diagnosis	ICD-10-CM
G43.80	Other migraine, not intractable	Diagnosis	ICD-10-CM
G43.801	Other migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.809	Other migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.81	Other migraine, intractable	Diagnosis	ICD-10-CM
G43.811	Other migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.819	Other migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.82	Menstrual migraine, not intractable	Diagnosis	ICD-10-CM
G43.821	Menstrual migraine, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.829	Menstrual migraine, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.83	Menstrual migraine, intractable	Diagnosis	ICD-10-CM
G43.831	Menstrual migraine, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.839	Menstrual migraine, intractable, without status migrainosus	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
G43.9	Migraine, unspecified	Diagnosis	ICD-10-CM
G43.90	Migraine, unspecified, not intractable	Diagnosis	ICD-10-CM
G43.901	Migraine, unspecified, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.909	Migraine, unspecified, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.91	Migraine, unspecified, intractable	Diagnosis	ICD-10-CM
G43.911	Migraine, unspecified, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.919	Migraine, unspecified, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.A0	Cyclical vomiting, in migraine, not intractable	Diagnosis	ICD-10-CM
G43.A1	Cyclical vomiting, in migraine, intractable	Diagnosis	ICD-10-CM
G43.B	Ophthalmoplegic migraine	Diagnosis	ICD-10-CM
G43.B0	Ophthalmoplegic migraine, not intractable	Diagnosis	ICD-10-CM
G43.B1	Ophthalmoplegic migraine, intractable	Diagnosis	ICD-10-CM
G43.D	Abdominal migraine	Diagnosis	ICD-10-CM
G43.D0	Abdominal migraine, not intractable	Diagnosis	ICD-10-CM
G43.D1	Abdominal migraine, intractable	Diagnosis	ICD-10-CM
G43.E	Chronic migraine with aura	Diagnosis	ICD-10-CM
G43.E0	Chronic migraine with aura, not intractable	Diagnosis	ICD-10-CM
G43.E01	Chronic migraine with aura, not intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.E09	Chronic migraine with aura, not intractable, without status migrainosus	Diagnosis	ICD-10-CM
G43.E1	Chronic migraine with aura, intractable	Diagnosis	ICD-10-CM
G43.E11	Chronic migraine with aura, intractable, with status migrainosus	Diagnosis	ICD-10-CM
G43.E19	Chronic migraine with aura, intractable, without status migrainosus	Diagnosis	ICD-10-CM
G60.1	Refsum's disease	Diagnosis	ICD-10-CM
G89.2	Chronic pain, not elsewhere classified	Diagnosis	ICD-10-CM
G89.21	Chronic pain due to trauma	Diagnosis	ICD-10-CM
G89.22	Chronic post-thoracotomy pain	Diagnosis	ICD-10-CM
G89.28	Other chronic postprocedural pain	Diagnosis	ICD-10-CM
G89.29	Other chronic pain	Diagnosis	ICD-10-CM
G89.4	Chronic pain syndrome	Diagnosis	ICD-10-CM
G90	Disorders of autonomic nervous system	Diagnosis	ICD-10-CM
G90.0	Idiopathic peripheral autonomic neuropathy	Diagnosis	ICD-10-CM
G90.01	Carotid sinus syncope	Diagnosis	ICD-10-CM
G90.09	Other idiopathic peripheral autonomic neuropathy	Diagnosis	ICD-10-CM
M05.00	Felty's syndrome, unspecified site	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
M05.021	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
M05.031	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
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	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
M05.071	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
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	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
M05.221	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
M05.231	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
M05.241	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
M05.251	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
M05.261	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
M05.271	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
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	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
M05.321	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
M05.331	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
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
M05.351	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
M05.361	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
M05.371	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	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	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
M05.421	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
M05.431	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
M05.441	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
M05.451	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
M05.461	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
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
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
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	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
M05.521	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
M05.531	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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
M05.551	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
M05.561	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
M05.571	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
M05.60	Rheumatoid arthritis of unspecified site 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
M05.621	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
M05.629	Rheumatoid arthritis of unspecified elbow 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
M05.641	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
M05.651	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
M05.661	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
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site 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
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
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
M05.731	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
M05.741	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
M05.751	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
M05.761	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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.7A	Rheumatoid arthritis with rheumatoid factor of other specified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	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
M05.821	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
M05.831	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
M05.841	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
M05.851	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
M05.861	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
M05.871	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
M05.8A	Other rheumatoid arthritis with rheumatoid factor of other specified site	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	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
M06.021	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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
M06.051	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
M06.061	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
M06.071	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
M06.0A	Rheumatoid arthritis without rheumatoid factor, other specified site	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	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
M06.221	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
M06.231	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
M06.241	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
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	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
M06.271	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
M06.30	Rheumatoid nodule, unspecified site	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
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	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
M06.341	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
M06.351	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
M06.361	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
M06.371	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
M06.80	Other specified rheumatoid arthritis, unspecified site	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
M06.821	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
M06.831	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
M06.841	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
M06.851	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
M06.861	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
M06.871	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
M06.8A	Other specified rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.0A	Unspecified juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.2A	Juvenile rheumatoid arthritis with systemic onset, other specified site	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
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.4A	Pauciarticular juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M08.9A	Juvenile arthritis, unspecified, other specified site	Diagnosis	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	Diagnosis	ICD-10-CM
M15.1	Heberden's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.3	Secondary multiple arthritis	Diagnosis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	Diagnosis	ICD-10-CM
M15.8	Other polyosteoarthritis	Diagnosis	ICD-10-CM
M15.9	Polyosteoarthritis, unspecified	Diagnosis	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M16.12	Unilateral primary osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.2	Bilateral osteoarthritis resulting from hip dysplasia	Diagnosis	ICD-10-CM
M16.30	Unilateral osteoarthritis resulting from hip dysplasia, unspecified hip	Diagnosis	ICD-10-CM
M16.31	Unilateral osteoarthritis resulting from hip dysplasia, right hip	Diagnosis	ICD-10-CM
M16.32	Unilateral osteoarthritis resulting from hip dysplasia, left hip	Diagnosis	ICD-10-CM
M16.4	Bilateral post-traumatic osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.50	Unilateral post-traumatic osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.51	Unilateral post-traumatic osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.52	Unilateral post-traumatic osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.6	Other bilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.7	Other unilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.9	Osteoarthritis of hip, unspecified	Diagnosis	ICD-10-CM
M17.0	Bilateral primary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.10	Unilateral primary osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.11	Unilateral primary osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.12	Unilateral primary osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.2	Bilateral post-traumatic osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	Diagnosis	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.50	Other unilateral secondary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.51	Other unilateral secondary osteoarthritis of first carpometacarpal joint, right	Diagnosis	ICD-10-CM
M18.52	Other unilateral secondary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.9	Osteoarthritis of first carpometacarpal joint, unspecified	Diagnosis	ICD-10-CM
M19.011	Primary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.012	Primary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.019	Primary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.021	Primary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.022	Primary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.029	Primary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.031	Primary osteoarthritis, right wrist	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M19.032	Primary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.039	Primary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.041	Primary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.042	Primary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.049	Primary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.071	Primary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.072	Primary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.079	Primary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.09	Primary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.129	Post-traumatic osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.131	Post-traumatic osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.132	Post-traumatic osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.139	Post-traumatic osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.141	Post-traumatic osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.142	Post-traumatic osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.149	Post-traumatic osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.171	Post-traumatic osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.172	Post-traumatic osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.179	Post-traumatic osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.19	Post-traumatic osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.211	Secondary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.212	Secondary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.219	Secondary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.221	Secondary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.222	Secondary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.229	Secondary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.231	Secondary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.232	Secondary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.239	Secondary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.241	Secondary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.242	Secondary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.249	Secondary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.271	Secondary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.272	Secondary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.279	Secondary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.29	Secondary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.90	Unspecified osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.91	Primary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.92	Post-traumatic osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.93	Secondary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M25.50	Pain in unspecified joint	Diagnosis	ICD-10-CM
M25.511	Pain in right shoulder	Diagnosis	ICD-10-CM
M25.512	Pain in left shoulder	Diagnosis	ICD-10-CM
M25.519	Pain in unspecified shoulder	Diagnosis	ICD-10-CM
M25.551	Pain in right hip	Diagnosis	ICD-10-CM
M25.552	Pain in left hip	Diagnosis	ICD-10-CM
M25.559	Pain in unspecified hip	Diagnosis	ICD-10-CM
M25.561	Pain in right knee	Diagnosis	ICD-10-CM
M25.562	Pain in left knee	Diagnosis	ICD-10-CM
M25.569	Pain in unspecified knee	Diagnosis	ICD-10-CM
M25.571	Pain in right ankle and joints of right foot	Diagnosis	ICD-10-CM
M25.572	Pain in left ankle and joints of left foot	Diagnosis	ICD-10-CM
M25.579	Pain in unspecified ankle and joints of unspecified foot	Diagnosis	ICD-10-CM
M25.78	Osteophyte, vertebrae	Diagnosis	ICD-10-CM
M43.20	Fusion of spine, site unspecified	Diagnosis	ICD-10-CM
M43.21	Fusion of spine, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M43.22	Fusion of spine, cervical region	Diagnosis	ICD-10-CM
M43.23	Fusion of spine, cervicothoracic region	Diagnosis	ICD-10-CM
M43.24	Fusion of spine, thoracic region	Diagnosis	ICD-10-CM
M43.25	Fusion of spine, thoracolumbar region	Diagnosis	ICD-10-CM
M43.26	Fusion of spine, lumbar region	Diagnosis	ICD-10-CM
M43.27	Fusion of spine, lumbosacral region	Diagnosis	ICD-10-CM
M43.28	Fusion of spine, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M43.6	Torticollis	Diagnosis	ICD-10-CM
M43.8X9	Other specified deforming dorsopathies, site unspecified	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M46.1	Sacroiliitis, not elsewhere classified	Diagnosis	ICD-10-CM
M46.41	Discitis, unspecified, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M46.42	Discitis, unspecified, cervical region	Diagnosis	ICD-10-CM
M46.43	Discitis, unspecified, cervicothoracic region	Diagnosis	ICD-10-CM
M46.44	Discitis, unspecified, thoracic region	Diagnosis	ICD-10-CM
M46.45	Discitis, unspecified, thoracolumbar region	Diagnosis	ICD-10-CM
M46.46	Discitis, unspecified, lumbar region	Diagnosis	ICD-10-CM
M46.47	Discitis, unspecified, lumbosacral region	Diagnosis	ICD-10-CM
M46.90	Unspecified inflammatory spondylopathy, site unspecified	Diagnosis	ICD-10-CM
M46.91	Unspecified inflammatory spondylopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M46.92	Unspecified inflammatory spondylopathy, cervical region	Diagnosis	ICD-10-CM
M46.93	Unspecified inflammatory spondylopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M46.94	Unspecified inflammatory spondylopathy, thoracic region	Diagnosis	ICD-10-CM
M46.95	Unspecified inflammatory spondylopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M46.96	Unspecified inflammatory spondylopathy, lumbar region	Diagnosis	ICD-10-CM
M46.97	Unspecified inflammatory spondylopathy, lumbosacral region	Diagnosis	ICD-10-CM
M46.98	Unspecified inflammatory spondylopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M46.99	Unspecified inflammatory spondylopathy, multiple sites in spine	Diagnosis	ICD-10-CM
M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.012	Anterior spinal artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.013	Anterior spinal artery compression syndromes, cervicothoracic region	Diagnosis	ICD-10-CM
M47.014	Anterior spinal artery compression syndromes, thoracic region	Diagnosis	ICD-10-CM
M47.015	Anterior spinal artery compression syndromes, thoracolumbar region	Diagnosis	ICD-10-CM
M47.016	Anterior spinal artery compression syndromes, lumbar region	Diagnosis	ICD-10-CM
M47.019	Anterior spinal artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.022	Vertebral artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.029	Vertebral artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.10	Other spondylosis with myelopathy, site unspecified	Diagnosis	ICD-10-CM
M47.11	Other spondylosis with myelopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.12	Other spondylosis with myelopathy, cervical region	Diagnosis	ICD-10-CM
M47.13	Other spondylosis with myelopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.14	Other spondylosis with myelopathy, thoracic region	Diagnosis	ICD-10-CM
M47.15	Other spondylosis with myelopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.16	Other spondylosis with myelopathy, lumbar region	Diagnosis	ICD-10-CM
M47.20	Other spondylosis with radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.21	Other spondylosis with radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.22	Other spondylosis with radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.23	Other spondylosis with radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.24	Other spondylosis with radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.25	Other spondylosis with radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.26	Other spondylosis with radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.27	Other spondylosis with radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.28	Other spondylosis with radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.813	Spondylosis without myelopathy or radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.819	Spondylosis without myelopathy or radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.891	Other spondylosis, occipito-atlanto-axial region	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M47.892	Other spondylosis, cervical region	Diagnosis	ICD-10-CM
M47.893	Other spondylosis, cervicothoracic region	Diagnosis	ICD-10-CM
M47.894	Other spondylosis, thoracic region	Diagnosis	ICD-10-CM
M47.895	Other spondylosis, thoracolumbar region	Diagnosis	ICD-10-CM
M47.896	Other spondylosis, lumbar region	Diagnosis	ICD-10-CM
M47.897	Other spondylosis, lumbosacral region	Diagnosis	ICD-10-CM
M47.898	Other spondylosis, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.899	Other spondylosis, site unspecified	Diagnosis	ICD-10-CM
M47.9	Spondylosis, unspecified	Diagnosis	ICD-10-CM
M48.04	Spinal stenosis, thoracic region	Diagnosis	ICD-10-CM
M48.05	Spinal stenosis, thoracolumbar region	Diagnosis	ICD-10-CM
M48.061	Spinal stenosis, lumbar region without neurogenic claudication	Diagnosis	ICD-10-CM
M48.07	Spinal stenosis, lumbosacral region	Diagnosis	ICD-10-CM
M48.08	Spinal stenosis, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.10	Ankylosing hyperostosis [Forestier], site unspecified	Diagnosis	ICD-10-CM
M48.11	Ankylosing hyperostosis [Forestier], occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M48.12	Ankylosing hyperostosis [Forestier], cervical region	Diagnosis	ICD-10-CM
M48.13	Ankylosing hyperostosis [Forestier], cervicothoracic region	Diagnosis	ICD-10-CM
M48.14	Ankylosing hyperostosis [Forestier], thoracic region	Diagnosis	ICD-10-CM
M48.15	Ankylosing hyperostosis [Forestier], thoracolumbar region	Diagnosis	ICD-10-CM
M48.16	Ankylosing hyperostosis [Forestier], lumbar region	Diagnosis	ICD-10-CM
M48.17	Ankylosing hyperostosis [Forestier], lumbosacral region	Diagnosis	ICD-10-CM
M48.18	Ankylosing hyperostosis [Forestier], sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.19	Ankylosing hyperostosis [Forestier], multiple sites in spine	Diagnosis	ICD-10-CM
M48.8X1	Other specified spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M48.8X2	Other specified spondylopathies, cervical region	Diagnosis	ICD-10-CM
M48.8X3	Other specified spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M48.8X4	Other specified spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M48.8X5	Other specified spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M48.8X6	Other specified spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M48.8X7	Other specified spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M48.8X8	Other specified spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.8X9	Other specified spondylopathies, site unspecified	Diagnosis	ICD-10-CM
M48.9	Spondylopathy, unspecified	Diagnosis	ICD-10-CM
M50.00	Cervical disc disorder with myelopathy, unspecified cervical region	Diagnosis	ICD-10-CM
M50.01	Cervical disc disorder with myelopathy, high cervical region	Diagnosis	ICD-10-CM
M50.020	Cervical disc disorder with myelopathy, mid-cervical region, unspecified level	Diagnosis	ICD-10-CM
M50.021	Cervical disc disorder at C4-C5 level with myelopathy	Diagnosis	ICD-10-CM
M50.022	Cervical disc disorder at C5-C6 level with myelopathy	Diagnosis	ICD-10-CM
M50.023	Cervical disc disorder at C6-C7 level with myelopathy	Diagnosis	ICD-10-CM
M50.03	Cervical disc disorder with myelopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M50.10	Cervical disc disorder with radiculopathy, unspecified cervical region	Diagnosis	ICD-10-CM
M50.11	Cervical disc disorder with radiculopathy, high cervical region	Diagnosis	ICD-10-CM
M50.120	Mid-cervical disc disorder, unspecified level	Diagnosis	ICD-10-CM
M50.121	Cervical disc disorder at C4-C5 level with radiculopathy	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M50.122	Cervical disc disorder at C5-C6 level with radiculopathy	Diagnosis	ICD-10-CM
M50.123	Cervical disc disorder at C6-C7 level with radiculopathy	Diagnosis	ICD-10-CM
M50.13	Cervical disc disorder with radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M50.30	Other cervical disc degeneration, unspecified cervical region	Diagnosis	ICD-10-CM
M50.31	Other cervical disc degeneration, high cervical region	Diagnosis	ICD-10-CM
M50.320	Other cervical disc degeneration, mid-cervical region, unspecified level	Diagnosis	ICD-10-CM
M50.321	Other cervical disc degeneration at C4-C5 level	Diagnosis	ICD-10-CM
M50.322	Other cervical disc degeneration at C5-C6 level	Diagnosis	ICD-10-CM
M50.323	Other cervical disc degeneration at C6-C7 level	Diagnosis	ICD-10-CM
M50.33	Other cervical disc degeneration, cervicothoracic region	Diagnosis	ICD-10-CM
M50.80	Other cervical disc disorders, unspecified cervical region	Diagnosis	ICD-10-CM
M50.81	Other cervical disc disorders, high cervical region	Diagnosis	ICD-10-CM
M50.820	Other cervical disc disorders, mid-cervical region, unspecified level	Diagnosis	ICD-10-CM
M50.821	Other cervical disc disorders at C4-C5 level	Diagnosis	ICD-10-CM
M50.822	Other cervical disc disorders at C5-C6 level	Diagnosis	ICD-10-CM
M50.823	Other cervical disc disorders at C6-C7 level	Diagnosis	ICD-10-CM
M50.83	Other cervical disc disorders, cervicothoracic region	Diagnosis	ICD-10-CM
M50.90	Cervical disc disorder, unspecified, unspecified cervical region	Diagnosis	ICD-10-CM
M50.91	Cervical disc disorder, unspecified, high cervical region	Diagnosis	ICD-10-CM
M50.920	Unspecified cervical disc disorder, mid-cervical region, unspecified level	Diagnosis	ICD-10-CM
M50.921	Unspecified cervical disc disorder at C4-C5 level	Diagnosis	ICD-10-CM
M50.922	Unspecified cervical disc disorder at C5-C6 level	Diagnosis	ICD-10-CM
M50.923	Unspecified cervical disc disorder at C6-C7 level	Diagnosis	ICD-10-CM
M50.93	Cervical disc disorder, unspecified, cervicothoracic region	Diagnosis	ICD-10-CM
M51.06	Intervertebral disc disorders with myelopathy, lumbar region	Diagnosis	ICD-10-CM
M51.14	Intervertebral disc disorders with radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M51.15	Intervertebral disc disorders with radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M51.16	Intervertebral disc disorders with radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M51.17	Intervertebral disc disorders with radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M51.24	Other intervertebral disc displacement, thoracic region	Diagnosis	ICD-10-CM
M51.25	Other intervertebral disc displacement, thoracolumbar region	Diagnosis	ICD-10-CM
M51.34	Other intervertebral disc degeneration, thoracic region	Diagnosis	ICD-10-CM
M51.35	Other intervertebral disc degeneration, thoracolumbar region	Diagnosis	ICD-10-CM
M51.36	Other intervertebral disc degeneration, lumbar region	Diagnosis	ICD-10-CM
M51.37	Other intervertebral disc degeneration, lumbosacral region	Diagnosis	ICD-10-CM
M51.44	Schmorl's nodes, thoracic region	Diagnosis	ICD-10-CM
M51.45	Schmorl's nodes, thoracolumbar region	Diagnosis	ICD-10-CM
M51.46	Schmorl's nodes, lumbar region	Diagnosis	ICD-10-CM
M51.47	Schmorl's nodes, lumbosacral region	Diagnosis	ICD-10-CM
M51.84	Other intervertebral disc disorders, thoracic region	Diagnosis	ICD-10-CM
M51.85	Other intervertebral disc disorders, thoracolumbar region	Diagnosis	ICD-10-CM
M51.86	Other intervertebral disc disorders, lumbar region	Diagnosis	ICD-10-CM
M51.87	Other intervertebral disc disorders, lumbosacral region	Diagnosis	ICD-10-CM
M51.9	Unspecified thoracic, thoracolumbar and lumbosacral intervertebral disc	Diagnosis	ICD-10-CM
M53.1	Cervicobrachial syndrome	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M53.2X7	Spinal instabilities, lumbosacral region	Diagnosis	ICD-10-CM
M53.2X8	Spinal instabilities, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M53.3	Sacrococcygeal disorders, not elsewhere classified	Diagnosis	ICD-10-CM
M53.80	Other specified dorsopathies, site unspecified	Diagnosis	ICD-10-CM
M53.81	Other specified dorsopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M53.82	Other specified dorsopathies, cervical region	Diagnosis	ICD-10-CM
M53.83	Other specified dorsopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M53.84	Other specified dorsopathies, thoracic region	Diagnosis	ICD-10-CM
M53.85	Other specified dorsopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M53.86	Other specified dorsopathies, lumbar region	Diagnosis	ICD-10-CM
M53.87	Other specified dorsopathies, lumbosacral region	Diagnosis	ICD-10-CM
M53.88	Other specified dorsopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M53.9	Dorsopathy, unspecified	Diagnosis	ICD-10-CM
M54.00	Panniculitis affecting regions of neck and back, site unspecified	Diagnosis	ICD-10-CM
M54.01	Panniculitis affecting regions of neck and back, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M54.02	Panniculitis affecting regions of neck and back, cervical region	Diagnosis	ICD-10-CM
M54.03	Panniculitis affecting regions of neck and back, cervicothoracic region	Diagnosis	ICD-10-CM
M54.04	Panniculitis affecting regions of neck and back, thoracic region	Diagnosis	ICD-10-CM
M54.05	Panniculitis affecting regions of neck and back, thoracolumbar region	Diagnosis	ICD-10-CM
M54.06	Panniculitis affecting regions of neck and back, lumbar region	Diagnosis	ICD-10-CM
M54.07	Panniculitis affecting regions of neck and back, lumbosacral region	Diagnosis	ICD-10-CM
M54.08	Panniculitis affecting regions of neck and back, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M54.09	Panniculitis affecting regions, neck and back, multiple sites in spine	Diagnosis	ICD-10-CM
M54.10	Radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M54.11	Radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M54.12	Radiculopathy, cervical region	Diagnosis	ICD-10-CM
M54.13	Radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M54.14	Radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M54.15	Radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M54.16	Radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M54.17	Radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M54.18	Radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M54.2	Cervicalgia	Diagnosis	ICD-10-CM
M54.30	Sciatica, unspecified side	Diagnosis	ICD-10-CM
M54.31	Sciatica, right side	Diagnosis	ICD-10-CM
M54.32	Sciatica, left side	Diagnosis	ICD-10-CM
M54.40	Lumbago with sciatica, unspecified side	Diagnosis	ICD-10-CM
M54.41	Lumbago with sciatica, right side	Diagnosis	ICD-10-CM
M54.42	Lumbago with sciatica, left side	Diagnosis	ICD-10-CM
M54.5	Low back pain	Diagnosis	ICD-10-CM
M54.6	Pain in thoracic spine	Diagnosis	ICD-10-CM
M54.81	Occipital neuralgia	Diagnosis	ICD-10-CM
M54.89	Other dorsalgia	Diagnosis	ICD-10-CM
M54.9	Dorsalgia, unspecified	Diagnosis	ICD-10-CM
M60.80	Other myositis, unspecified site	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M60.811	Other myositis, right shoulder	Diagnosis	ICD-10-CM
M60.812	Other myositis, left shoulder	Diagnosis	ICD-10-CM
M60.819	Other myositis, unspecified shoulder	Diagnosis	ICD-10-CM
M60.821	Other myositis, right upper arm	Diagnosis	ICD-10-CM
M60.822	Other myositis, left upper arm	Diagnosis	ICD-10-CM
M60.829	Other myositis, unspecified upper arm	Diagnosis	ICD-10-CM
M60.831	Other myositis, right forearm	Diagnosis	ICD-10-CM
M60.832	Other myositis, left forearm	Diagnosis	ICD-10-CM
M60.839	Other myositis, unspecified forearm	Diagnosis	ICD-10-CM
M60.841	Other myositis, right hand	Diagnosis	ICD-10-CM
M60.842	Other myositis, left hand	Diagnosis	ICD-10-CM
M60.849	Other myositis, unspecified hand	Diagnosis	ICD-10-CM
M60.851	Other myositis, right thigh	Diagnosis	ICD-10-CM
M60.852	Other myositis, left thigh	Diagnosis	ICD-10-CM
M60.859	Other myositis, unspecified thigh	Diagnosis	ICD-10-CM
M60.861	Other myositis, right lower leg	Diagnosis	ICD-10-CM
M60.862	Other myositis, left lower leg	Diagnosis	ICD-10-CM
M60.869	Other myositis, unspecified lower leg	Diagnosis	ICD-10-CM
M60.871	Other myositis, right ankle and foot	Diagnosis	ICD-10-CM
M60.872	Other myositis, left ankle and foot	Diagnosis	ICD-10-CM
M60.879	Other myositis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M60.88	Other myositis, other site	Diagnosis	ICD-10-CM
M60.89	Other myositis, multiple sites	Diagnosis	ICD-10-CM
M60.9	Myositis, unspecified	Diagnosis	ICD-10-CM
M62.830	Muscle spasm of back	Diagnosis	ICD-10-CM
M67.88	Other specified disorders of synovium and tendon, other site	Diagnosis	ICD-10-CM
M72.9	Fibroblastic disorder, unspecified	Diagnosis	ICD-10-CM
M79.1	Myalgia	Diagnosis	ICD-10-CM
M79.2	Neuralgia and neuritis, unspecified	Diagnosis	ICD-10-CM
M79.6	Pain in limb, hand, foot, fingers and toes	Diagnosis	ICD-10-CM
M79.601	Pain in right arm	Diagnosis	ICD-10-CM
M79.602	Pain in left arm	Diagnosis	ICD-10-CM
M79.603	Pain in arm, unspecified	Diagnosis	ICD-10-CM
M79.604	Pain in right leg	Diagnosis	ICD-10-CM
M79.605	Pain in left leg	Diagnosis	ICD-10-CM
M79.606	Pain in leg, unspecified	Diagnosis	ICD-10-CM
M79.609	Pain in unspecified limb	Diagnosis	ICD-10-CM
M79.621	Pain in right upper arm	Diagnosis	ICD-10-CM
M79.622	Pain in left upper arm	Diagnosis	ICD-10-CM
M79.629	Pain in unspecified upper arm	Diagnosis	ICD-10-CM
M79.631	Pain in right forearm	Diagnosis	ICD-10-CM
M79.632	Pain in left forearm	Diagnosis	ICD-10-CM
M79.639	Pain in unspecified forearm	Diagnosis	ICD-10-CM
M79.641	Pain in right hand	Diagnosis	ICD-10-CM
M79.642	Pain in left hand	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M79.643	Pain in unspecified hand	Diagnosis	ICD-10-CM
M79.644	Pain in right finger(s)	Diagnosis	ICD-10-CM
M79.645	Pain in left finger(s)	Diagnosis	ICD-10-CM
M79.646	Pain in unspecified finger(s)	Diagnosis	ICD-10-CM
M79.651	Pain in right thigh	Diagnosis	ICD-10-CM
M79.652	Pain in left thigh	Diagnosis	ICD-10-CM
M79.659	Pain in unspecified thigh	Diagnosis	ICD-10-CM
M79.661	Pain in right lower leg	Diagnosis	ICD-10-CM
M79.662	Pain in left lower leg	Diagnosis	ICD-10-CM
M79.669	Pain in unspecified lower leg	Diagnosis	ICD-10-CM
M79.671	Pain in right foot	Diagnosis	ICD-10-CM
M79.672	Pain in left foot	Diagnosis	ICD-10-CM
M79.673	Pain in unspecified foot	Diagnosis	ICD-10-CM
M79.674	Pain in right toe(s)	Diagnosis	ICD-10-CM
M79.675	Pain in left toe(s)	Diagnosis	ICD-10-CM
M79.676	Pain in unspecified toe(s)	Diagnosis	ICD-10-CM
M79.7	Fibromyalgia	Diagnosis	ICD-10-CM
M96.1	Postlaminectomy syndrome, not elsewhere classified	Diagnosis	ICD-10-CM
M99.22	Subluxation stenosis of neural canal of thoracic region	Diagnosis	ICD-10-CM
M99.23	Subluxation stenosis of neural canal of lumbar region	Diagnosis	ICD-10-CM
M99.24	Subluxation stenosis of neural canal of sacral region	Diagnosis	ICD-10-CM
M99.25	Subluxation stenosis of neural canal of pelvic region	Diagnosis	ICD-10-CM
M99.26	Subluxation stenosis of neural canal of lower extremity	Diagnosis	ICD-10-CM
M99.27	Subluxation stenosis of neural canal of upper extremity	Diagnosis	ICD-10-CM
M99.28	Subluxation stenosis of neural canal of rib cage	Diagnosis	ICD-10-CM
M99.29	Subluxation stenosis of neural canal of abdomen and other regions	Diagnosis	ICD-10-CM
M99.32	Osseous stenosis of neural canal of thoracic region	Diagnosis	ICD-10-CM
M99.33	Osseous stenosis of neural canal of lumbar region	Diagnosis	ICD-10-CM
M99.34	Osseous stenosis of neural canal of sacral region	Diagnosis	ICD-10-CM
M99.35	Osseous stenosis of neural canal of pelvic region	Diagnosis	ICD-10-CM
M99.36	Osseous stenosis of neural canal of lower extremity	Diagnosis	ICD-10-CM
M99.37	Osseous stenosis of neural canal of upper extremity	Diagnosis	ICD-10-CM
M99.38	Osseous stenosis of neural canal of rib cage	Diagnosis	ICD-10-CM
M99.39	Osseous stenosis of neural canal of abdomen and other regions	Diagnosis	ICD-10-CM
M99.42	Connective tissue stenosis of neural canal of thoracic region	Diagnosis	ICD-10-CM
M99.43	Connective tissue stenosis of neural canal of lumbar region	Diagnosis	ICD-10-CM
M99.44	Connective tissue stenosis of neural canal of sacral region	Diagnosis	ICD-10-CM
M99.45	Connective tissue stenosis of neural canal of pelvic region	Diagnosis	ICD-10-CM
M99.46	Connective tissue stenosis of neural canal of lower extremity	Diagnosis	ICD-10-CM
M99.47	Connective tissue stenosis of neural canal of upper extremity	Diagnosis	ICD-10-CM
M99.48	Connective tissue stenosis of neural canal of rib cage	Diagnosis	ICD-10-CM
M99.49	Connective tissue stenosis of neural canal of abdomen and other regions	Diagnosis	ICD-10-CM
M99.52	Intervertebral disc stenosis of neural canal of thoracic region	Diagnosis	ICD-10-CM
M99.53	Intervertebral disc stenosis of neural canal of lumbar region	Diagnosis	ICD-10-CM
M99.54	Intervertebral disc stenosis of neural canal of sacral region	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
M99.55	Intervertebral disc stenosis of neural canal of pelvic region	Diagnosis	ICD-10-CM
M99.56	Intervertebral disc stenosis of neural canal of lower extremity	Diagnosis	ICD-10-CM
M99.57	Intervertebral disc stenosis of neural canal of upper extremity	Diagnosis	ICD-10-CM
M99.58	Intervertebral disc stenosis of neural canal of rib cage	Diagnosis	ICD-10-CM
M99.59	Intervertebral disc stenosis of neural canal of abdomen and other regions	Diagnosis	ICD-10-CM
M99.62	Osseous and subluxation stenosis of intervertebral foramina of thoracic region	Diagnosis	ICD-10-CM
M99.63	Osseous and subluxation stenosis of intervertebral foramina of lumbar region	Diagnosis	ICD-10-CM
M99.64	Osseous and subluxation stenosis of intervertebral foramina of sacral region	Diagnosis	ICD-10-CM
M99.65	Osseous and subluxation stenosis of intervertebral foramina of pelvic region	Diagnosis	ICD-10-CM
M99.66	Osseous and subluxation stenosis of intervertebral foramina of lower extremity	Diagnosis	ICD-10-CM
M99.67	Osseous and subluxation stenosis of intervertebral foramina of upper extremity	Diagnosis	ICD-10-CM
M99.68	Osseous and subluxation stenosis of intervertebral foramina of rib cage	Diagnosis	ICD-10-CM
M99.69	Osseous and subluxation stenosis of intervertebral foramina of abdomen and other regions	Diagnosis	ICD-10-CM
M99.72	Connective tissue and disc stenosis of intervertebral foramina of thoracic region	Diagnosis	ICD-10-CM
M99.73	Connective tissue and disc stenosis of intervertebral foramina of lumbar region	Diagnosis	ICD-10-CM
M99.74	Connective tissue and disc stenosis of intervertebral foramina of sacral region	Diagnosis	ICD-10-CM
M99.75	Connective tissue and disc stenosis of intervertebral foramina of pelvic region	Diagnosis	ICD-10-CM
M99.76	Connective tissue and disc stenosis of intervertebral foramina of lower extremity	Diagnosis	ICD-10-CM
M99.77	Connective tissue and disc stenosis of intervertebral foramina of upper extremity	Diagnosis	ICD-10-CM
M99.78	Connective tissue and disc stenosis of intervertebral foramina of rib cage	Diagnosis	ICD-10-CM
M99.79	Connective tissue and disc stenosis of intervertebral foramina of abdomen and other regions	Diagnosis	ICD-10-CM
Attention-Deficit/Hyperactivity Disorder			
F90.0	Attention-deficit hyperactivity disorder, predominantly inattentive type	Diagnosis	ICD-10-CM
F90.1	Attention-deficit hyperactivity disorder, predominantly hyperactive type	Diagnosis	ICD-10-CM
F90.2	Attention-deficit hyperactivity disorder, combined type	Diagnosis	ICD-10-CM
F90.8	Attention-deficit hyperactivity disorder, other type	Diagnosis	ICD-10-CM
F90.9	Attention-deficit hyperactivity disorder, unspecified type	Diagnosis	ICD-10-CM
Conduct or adjustment disorders or other related disorders			
F43.24	Adjustment disorder with disturbance of conduct	Diagnosis	ICD-10-CM
F43.25	Adjustment disorder with mixed disturbance of emotions and conduct	Diagnosis	ICD-10-CM
F63.0	Pathological gambling	Diagnosis	ICD-10-CM
F63.1	Pyromania	Diagnosis	ICD-10-CM
F63.2	Kleptomania	Diagnosis	ICD-10-CM
F63.3	Trichotillomania	Diagnosis	ICD-10-CM
F63.81	Intermittent explosive disorder	Diagnosis	ICD-10-CM
F63.89	Other impulse disorders	Diagnosis	ICD-10-CM
F91	Conduct disorders	Diagnosis	ICD-10-CM
F91.0	Conduct disorder confined to family context	Diagnosis	ICD-10-CM
F91.1	Conduct disorder, childhood-onset type	Diagnosis	ICD-10-CM
F91.2	Conduct disorder, adolescent-onset type	Diagnosis	ICD-10-CM
F91.3	Oppositional defiant disorder	Diagnosis	ICD-10-CM
F91.8	Other conduct disorders	Diagnosis	ICD-10-CM
F91.9	Conduct disorder, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
Narcolepsy			
G47.411	Narcolepsy With Cataplexy	Diagnosis	ICD-10-CM
G47.419	Narcolepsy Without Cataplexy	Diagnosis	ICD-10-CM
Hypertension			
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	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
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	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
I13.2	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
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
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
I15.0	Renovascular 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
I1A.0	Resistant hypertension	Diagnosis	ICD-10-CM
Binge-Eating Disorder			
F50.81	Binge eating disorder	Diagnosis	ICD-10-CM
Coronary artery disease			
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 E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics 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 E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics 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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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 Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplasic Tissue, Open Approach	Procedure	ICD-10-PCS
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplasic 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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
021K0Z8	Bypass Right Ventricle to Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
021K0Z9	Bypass Right Ventricle to Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
021K0ZC	Bypass Right Ventricle to Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
021K0ZF	Bypass Right Ventricle to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021K0ZW	Bypass Right Ventricle to Aorta, Open Approach	Procedure	ICD-10-PCS
021K4Z8	Bypass Right Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021K4Z9	Bypass Right Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021K4ZC	Bypass Right Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021K4ZF	Bypass Right Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021K4ZW	Bypass Right Ventricle to Aorta, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L08P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021L08Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021L08R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021L09P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021L09Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021L09R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
021L0AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
021L0AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
021L0AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Open Approach	Procedure	ICD-10-PCS
021L0JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
021L0JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
021L0JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
021L0KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
021L0KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
021L0KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
021L0Z8	Bypass Left Ventricle to Right Internal Mammary, Open Approach	Procedure	ICD-10-PCS
021L0Z9	Bypass Left Ventricle to Left Internal Mammary, Open Approach	Procedure	ICD-10-PCS
021L0ZC	Bypass Left Ventricle to Thoracic Artery, Open Approach	Procedure	ICD-10-PCS
021L0ZF	Bypass Left Ventricle to Abdominal Artery, Open Approach	Procedure	ICD-10-PCS
021L0ZP	Bypass Left Ventricle to Pulmonary Trunk, Open Approach	Procedure	ICD-10-PCS
021L0ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Open Approach	Procedure	ICD-10-PCS
021L0ZR	Bypass Left Ventricle to Left Pulmonary Artery, Open Approach	Procedure	ICD-10-PCS
021L48P	Bypass Left Ventricle to Pulmonary Trunk with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L48Q	Bypass Left Ventricle to Right Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L48R	Bypass Left Ventricle to Left Pulmonary Artery with Zooplastic Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L49P	Bypass Left Ventricle to Pulmonary Trunk with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L49Q	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L49R	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Venous Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4AP	Bypass Left Ventricle to Pulmonary Trunk with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4AQ	Bypass Left Ventricle to Right Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4AR	Bypass Left Ventricle to Left Pulmonary Artery with Autologous Arterial Tissue, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4JP	Bypass Left Ventricle to Pulmonary Trunk with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4JQ	Bypass Left Ventricle to Right Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4JR	Bypass Left Ventricle to Left Pulmonary Artery with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4KP	Bypass Left Ventricle to Pulmonary Trunk with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4KQ	Bypass Left Ventricle to Right Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4KR	Bypass Left Ventricle to Left Pulmonary Artery with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
021L4Z8	Bypass Left Ventricle to Right Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4Z9	Bypass Left Ventricle to Left Internal Mammary, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4ZC	Bypass Left Ventricle to Thoracic Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4ZF	Bypass Left Ventricle to Abdominal Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4ZP	Bypass Left Ventricle to Pulmonary Trunk, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4ZQ	Bypass Left Ventricle to Right Pulmonary Artery, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
021L4ZR	Bypass Left Ventricle to Left Pulmonary 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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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	Procedure	ICD-10-PCS
02710E6	Dilation of Coronary Artery, Two Arteries, Bifurcation, with Two Intraluminal Devices, Open Approach	Procedure	ICD-10-PCS
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
02714TZ	Dilation of Coronary Artery, Two Arteries with Radioactive Intraluminal Device, 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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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 E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics 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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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	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
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

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Code	Description	Code Category	Code Type
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
33510	Coronary artery bypass, vein only; single coronary venous graft	Procedure	CPT-4
33511	Coronary artery bypass, vein only; 2 coronary venous grafts	Procedure	CPT-4
33512	Coronary artery bypass, vein only; 3 coronary venous grafts	Procedure	CPT-4
33513	Coronary artery bypass, vein only; 4 coronary venous grafts	Procedure	CPT-4
33514	Coronary artery bypass, vein only; 5 coronary venous grafts	Procedure	CPT-4
33516	Coronary artery bypass, vein only; 6 or more coronary venous grafts	Procedure	CPT-4
33517	Coronary artery bypass, using venous graft(s) and arterial graft(s); single vein graft (List separately in addition to code for primary procedure)	Procedure	CPT-4
33518	Coronary artery bypass, using venous graft(s) and arterial graft(s); 2 venous grafts (List separately in addition to code for primary procedure)	Procedure	CPT-4
33519	Coronary artery bypass, using venous graft(s) and arterial graft(s); 3 venous grafts (List separately in addition to code for primary procedure)	Procedure	CPT-4
33520	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Single Graft	Procedure	CPT-4
33521	Coronary artery bypass, using venous graft(s) and arterial graft(s); 4 venous grafts (List separately in addition to code for primary procedure)	Procedure	CPT-4
33522	Coronary artery bypass, using venous graft(s) and arterial graft(s); 5 venous grafts (List separately in addition to code for primary procedure)	Procedure	CPT-4
33523	Coronary artery bypass, using venous graft(s) and arterial graft(s); 6 or more venous grafts (List separately in addition to code for primary procedure)	Procedure	CPT-4
33525	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Two Coronary Grafts	Procedure	CPT-4
33528	Coronary Artery Bypass, Nonautogenous Graft (eg, Synthetic Or Cadaver); Three Or More Coronary Grafts	Procedure	CPT-4
33530	Reoperation, coronary artery bypass procedure or valve procedure, more than 1 month after original operation (List separately in addition to code for primary procedure)	Procedure	CPT-4
33533	Coronary artery bypass, using arterial graft(s); single arterial graft	Procedure	CPT-4
33534	Coronary artery bypass, using arterial graft(s); 2 coronary arterial grafts	Procedure	CPT-4
33535	Coronary artery bypass, using arterial graft(s); 3 coronary arterial grafts	Procedure	CPT-4
33536	Coronary artery bypass, using arterial graft(s); 4 or more coronary arterial grafts	Procedure	CPT-4
33560	Myocardial Operation Combined With Coronary Bypass Procedure	Procedure	CPT-4
33570	CORONARY ANGIOPLASTY W/BYPASS	Procedure	CPT-4
33572	Coronary endarterectomy, open, any method, of left anterior descending, circumflex, or right coronary artery performed in conjunction with coronary artery bypass graft procedure, each vessel (List separately in addition to primary procedure)	Procedure	CPT-4
33575	CORON ANGIOPLSTY W/BYPASS; COMBO W/VASCULARIZAT	Procedure	CPT-4
35600	Harvest of upper extremity artery, 1 segment, for coronary artery bypass 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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
3E070PZ	Introduction of Platelet Inhibitor into Coronary Artery, Open Approach	Procedure	ICD-10-PCS
3E07317	Introduction of Other Thrombolytic into Coronary Artery, Percutaneous	Procedure	ICD-10-PCS
3E073PZ	Introduction of Platelet Inhibitor into Coronary Artery, Percutaneous Approach	Procedure	ICD-10-PCS
92920	Percutaneous transluminal coronary angioplasty; single major coronary artery or branch	Procedure	CPT-4
92921	Percutaneous transluminal coronary angioplasty; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Procedure	CPT-4
92924	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; single major coronary artery or branch	Procedure	CPT-4
92925	Percutaneous transluminal coronary atherectomy, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Procedure	CPT-4
92928	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or branch	Procedure	CPT-4
92929	Percutaneous transcatheter placement of intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Procedure	CPT-4
92933	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	Procedure	CPT-4
92934	Percutaneous transluminal coronary atherectomy, with intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (List separately in addition to code for primary procedure)	Procedure	CPT-4
92937	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	Procedure	CPT-4
92938	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (List separately in addition to code for primary procedure)	Procedure	CPT-4
92941	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel	Procedure	CPT-4
92943	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; single vessel	Procedure	CPT-4
92944	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (List separately in addition to code for primary procedure)	Procedure	CPT-4
92973	Percutaneous transluminal coronary thrombectomy mechanical (List separately in addition to code for primary procedure)	Procedure	CPT-4

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Code	Description	Code Category	Code Type
92974	Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure)	Procedure	CPT-4
92977	Thrombolysis, coronary; by intravenous infusion	Procedure	CPT-4
92980	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	Procedure	CPT-4
92981	Transcatheter placement of an intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel (List separately in addition to code for primary procedure)	Procedure	CPT-4
92982	Percutaneous transluminal coronary balloon angioplasty; single vessel	Procedure	CPT-4
92984	Percutaneous transluminal coronary balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	Procedure	CPT-4
92995	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; single vessel	Procedure	CPT-4
92996	Percutaneous transluminal coronary atherectomy, by mechanical or other method, with or without balloon angioplasty; each additional vessel (List separately in addition to code for primary procedure)	Procedure	CPT-4
93455	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography	Procedure	CPT-4
93457	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) including intraprocedural injection(s) for bypass graft angiography and right heart catheterization	Procedure	CPT-4
93459	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	Procedure	CPT-4
93461	Catheter placement in coronary artery(s) for coronary angiography, including intraprocedural injection(s) for coronary angiography, imaging supervision and interpretation; with right and left heart catheterization including intraprocedural injection(s) for left ventriculography, when performed, catheter placement(s) in bypass graft(s) (internal mammary, free arterial, venous grafts) with bypass graft angiography	Procedure	CPT-4
B2020ZZ	Plain Radiography of Single Coronary Artery Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B2021ZZ	Plain Radiography of Single Coronary Artery Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B202YZZ	Plain Radiography of Single Coronary Artery Bypass Graft using Other Contrast	Procedure	ICD-10-PCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
B2030ZZ	Plain Radiography of Multiple Coronary Artery Bypass Grafts using High Osmolar Contrast	Procedure	ICD-10-PCS
B2031ZZ	Plain Radiography of Multiple Coronary Artery Bypass Grafts using Low Osmolar Contrast	Procedure	ICD-10-PCS
B203YZZ	Plain Radiography of Multiple Coronary Artery Bypass Grafts using Other	Procedure	ICD-10-PCS
B2070ZZ	Plain Radiography of Right Internal Mammary Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B2071ZZ	Plain Radiography of Right Internal Mammary Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B207YZZ	Plain Radiography of Right Internal Mammary Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
B2080ZZ	Plain Radiography of Left Internal Mammary Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B2081ZZ	Plain Radiography of Left Internal Mammary Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B208YZZ	Plain Radiography of Left Internal Mammary Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
B20F0ZZ	Plain Radiography of Other Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B20F1ZZ	Plain Radiography of Other Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B20FYZZ	Plain Radiography of Other Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
B212010	Fluoroscopy of Single Coronary Artery Bypass Graft using High Osmolar Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B2120ZZ	Fluoroscopy of Single Coronary Artery Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B212110	Fluoroscopy of Single Coronary Artery Bypass Graft using Low Osmolar Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B2121ZZ	Fluoroscopy of Single Coronary Artery Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B212Y10	Fluoroscopy of Single Coronary Artery Bypass Graft using Other Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B212YZZ	Fluoroscopy of Single Coronary Artery Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
B213010	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using High Osmolar Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B2130ZZ	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using High Osmolar Contrast	Procedure	ICD-10-PCS
B213110	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using Low Osmolar Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B2131ZZ	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using Low Osmolar Contrast	Procedure	ICD-10-PCS
B213Y10	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using Other Contrast, Laser Intraoperative	Procedure	ICD-10-PCS
B213YZZ	Fluoroscopy of Multiple Coronary Artery Bypass Grafts using Other Contrast	Procedure	ICD-10-PCS
B2170ZZ	Fluoroscopy of Right Internal Mammary Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B2171ZZ	Fluoroscopy of Right Internal Mammary Bypass Graft using Low Osmolar	Procedure	ICD-10-PCS
B217YZZ	Fluoroscopy of Right Internal Mammary Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
B2180ZZ	Fluoroscopy of Left Internal Mammary Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B2181ZZ	Fluoroscopy of Left Internal Mammary Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B218YZZ	Fluoroscopy of Left Internal Mammary Bypass Graft using Other Contrast	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
B21F0ZZ	Fluoroscopy of Other Bypass Graft using High Osmolar Contrast	Procedure	ICD-10-PCS
B21F1ZZ	Fluoroscopy of Other Bypass Graft using Low Osmolar Contrast	Procedure	ICD-10-PCS
B21FYZZ	Fluoroscopy of Other Bypass Graft using Other Contrast	Procedure	ICD-10-PCS
C1034	Catheter, coronary angioplasty, surpass superfusion catheter, long 30 surpass superfusion catheter	Procedure	HCPCS
C1100	Guide wire, percutaneous transluminal coronary angioplasty, medtronic ave gt1 guide wire, medtronic ave gt2 fusion guide wire, interventional technologies trackwire, interventional technologies trackwire support, interventional technologies trackwire extra support	Procedure	HCPCS
C1101	Catheter, percutaneous transluminal coronary angioplasty guide, medtronic ave 5f, 6f, 7f, 8f, 9f zuma guide catheter, medtronic ave z2 5f, 6f, 7f, 8f, 9f zuma guide catheter, medtronic ave vector guide catheter, medtronic ave vector x guide catheter. note: only the medtronic ave z2 zuma guide catheters are effective october 1, 2000. the medtronic ave zuma guide catheters were effective august 1, 2000.	Procedure	HCPCS
C1366	Guide wire, percutaneous transluminal coronary angioplasty, hi-torque iron man, hi-torque balance middleweight, hi-torque all star, hi-torque balance heavyweight, hi-torque balance trek	Procedure	HCPCS
C1367	Guide wire, percutaneous transluminal coronary angioplasty, hi-torque cross it, hi-torque cross-it 100xt, hi-torque cross-it 200xt, hi-torque cross-it 300xt, hi-torque wiggle	Procedure	HCPCS
C1500	Atherectomy system, peripheral, rotablator rotational angioplasty system with rotalink exchangeable catheter, advancer, and guide wire	Procedure	HCPCS
C1725	Catheter, transluminal angioplasty, nonlaser (may include guidance, infusion/perfusion capability)	Procedure	HCPCS
C1885	Catheter, transluminal angioplasty, laser	Procedure	HCPCS
C1930	Catheter, percutaneous transluminal coronary angioplasty, coyote dilatation catheter 20mm/30mm/40mm	Procedure	HCPCS
C1933	Catheter, opti-plast centurion 5.5f pta catheter (shaft length 50 cm to 120 cm), opti-plast xl 5.5f pta catheter (shaft length 75 cm to 120 cm), opti-plast pta catheter (5.5 fr), tru trac 5fr percutaneous transluminal angioplasty balloon dilatation catheter, optiplast xt 5 fr percutaneous transluminal angioplasty catheter (various sizes)	Procedure	HCPCS
C1948	Catheter, pursuit balloon angioplasty catheter, cook accent balloon angioplasty catheter	Procedure	HCPCS
C1981	Catheter ,coronary angioplasty balloon, adante, bonnie, bonnie 15mm, bonnie monorail 30mm or 40mm, bonnie sliding rail, bypass speedy, chubby, chubby sliding rail, coyote 20mm, coyote 9/15/25mm, maxxum, nc ranger, nc ranger 9mm, ranger 20mm, long ranger 30mm or 40mm, nc ranger 16/18mm, nc ranger 22/25/30mm, nc big ranger, quantum ranger, quantum ranger 1/4 sizes, quantum ranger 9/16/18mm, quantum ranger 22/30mm, quantum ranger 25mm, ranger lp 20/30/40, viva/long viva, ace - 1cm, ace - 2cm, ace graft, long ace, pivot cobra (10, 14, 18, 30, 40mm in lengths) note: only the bonnie monorail 30mm or	Procedure	HCPCS

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Code	Description	Code Category	Code Type
C2605	Catheter, spectranetics extreme laser catheter, spectranetics extreme 0.9mm coronary angioplasty catheter (model 110-001)	Procedure	HCPCS
C2623	Catheter, transluminal angioplasty, drug-coated, nonlaser	Procedure	HCPCS
C3551	Guide wire, percutaneous transluminal coronary angioplasty, choice, luge, patriot, pt graphix intermediate, trooper, mailman 182/300 cm, glidewire gold guidewire, platinum plus guidewire, platinum plus guidewire with glidex hydrophilic coating, jagwire single-use high performance guide wire, merit medical systems extender guidewire, merit medical systems tomcat ptca guidewire, platinum plus guidewire (0.014 and 0.018 in diameters)	Procedure	HCPCS
C8526	Optiplast xt 5f percutaneous transluminal angioplasty catheter (various sizes)	Procedure	HCPCS
C9600	Percutaneous transcatheter placement of drug eluting intracoronary stent(s), with coronary angioplasty when performed; single major coronary artery or	Procedure	HCPCS
C9601	Percutaneous transcatheter placement of drug-eluting intracoronary stent(s), with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary procedure)	Procedure	HCPCS
C9602	Percutaneous transluminal coronary atherectomy, with drug eluting intracoronary stent, with coronary angioplasty when performed; single major coronary artery or branch	Procedure	HCPCS
C9603	Percutaneous transluminal coronary atherectomy, with drug-eluting intracoronary stent, with coronary angioplasty when performed; each additional branch of a major coronary artery (list separately in addition to code for primary	Procedure	HCPCS
C9604	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; single vessel	Procedure	HCPCS
C9605	Percutaneous transluminal revascularization of or through coronary artery bypass graft (internal mammary, free arterial, venous), any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including distal protection when performed; each additional branch subtended by the bypass graft (list separately in addition to code for primary procedure)	Procedure	HCPCS
C9606	Percutaneous transluminal revascularization of acute total/subtotal occlusion during acute myocardial infarction, coronary artery or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty, including aspiration thrombectomy when performed, single vessel	Procedure	HCPCS
C9607	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; single vessel	Procedure	HCPCS
C9608	Percutaneous transluminal revascularization of chronic total occlusion, coronary artery, coronary artery branch, or coronary artery bypass graft, any combination of drug-eluting intracoronary stent, atherectomy and angioplasty; each additional coronary artery, coronary artery branch, or bypass graft (list separately in addition to code for primary procedure)	Procedure	HCPCS
G0290	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; single vessel	Procedure	HCPCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
G0291	Transcatheter placement of a drug eluting intracoronary stent(s), percutaneous, with or without other therapeutic intervention, any method; each additional vessel	Procedure	HCPCS
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
I23.7	Postinfarction angina	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
I24.8	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
I25.5	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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
I47.0	Re-entry ventricular arrhythmia	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	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
I70.8	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
S2205	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini-sternotomy surgery, performed under direct vision; using arterial graft(s), single coronary arterial graft	Procedure	HCPCS
S2206	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini-sternotomy surgery, performed under direct vision; using arterial graft(s), 2 coronary arterial grafts	Procedure	HCPCS
S2207	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini-sternotomy surgery, performed under direct vision; using venous graft only, single coronary venous graft	Procedure	HCPCS
S2208	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini-sternotomy surgery, performed under direct vision; using single arterial and venous graft(s), single venous graft	Procedure	HCPCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
S2209	Minimally invasive direct coronary artery bypass surgery involving mini-thoracotomy or mini-sternotomy surgery, performed under direct vision; using 2 arterial grafts and single venous graft	Procedure	HCPCS
T82.211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82.212A	Displacement of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82.213A	Leakage of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
T82.218A	Other mechanical complication of coronary artery bypass graft, initial encounter	Diagnosis	ICD-10-CM
X2C0361	Extirpation of Matter from Coronary Artery, One Artery using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
X2C1361	Extirpation of Matter from Coronary Artery, Two Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
X2C2361	Extirpation of Matter from Coronary Artery, Three Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
X2C3361	Extirpation of Matter from Coronary Artery, Four or More Arteries using Orbital Atherectomy Technology, Percutaneous Approach, New Technology Group 1	Procedure	ICD-10-PCS
Z95.1	Presence of aortocoronary bypass graft	Diagnosis	ICD-10-CM
Z95.5	Presence of coronary angioplasty implant and graft	Diagnosis	ICD-10-CM
Cardiac arrhythmia			
G90.A	Postural orthostatic tachycardia syndrome [POTS]	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
I47.10	Supraventricular tachycardia, unspecified	Diagnosis	ICD-10-CM
I47.11	Inappropriate sinus tachycardia, so stated	Diagnosis	ICD-10-CM
I47.19	Other supraventricular tachycardia	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	Diagnosis	ICD-10-CM
I47.20	Ventricular tachycardia, unspecified	Diagnosis	ICD-10-CM
I47.29	Other ventricular tachycardia	Diagnosis	ICD-10-CM
I47.9	Paroxysmal tachycardia, unspecified	Diagnosis	ICD-10-CM
I48	Atrial fibrillation and flutter	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
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
I48.9	Unspecified atrial fibrillation and atrial flutter	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
I48.92	Unspecified atrial flutter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I49	Other cardiac arrhythmias	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
I49.2	Junctional premature depolarization	Diagnosis	ICD-10-CM
I49.8	Other specified cardiac arrhythmias	Diagnosis	ICD-10-CM
I49.9	Cardiac arrhythmia, unspecified	Diagnosis	ICD-10-CM
P29.1	Neonatal cardiac dysrhythmia	Diagnosis	ICD-10-CM
P29.11	Neonatal tachycardia	Diagnosis	ICD-10-CM
R00.0	Tachycardia, unspecified	Diagnosis	ICD-10-CM
R00.1	Bradycardia, unspecified	Diagnosis	ICD-10-CM
Cardiomyopathy			
I25.5	cardiomyopathy	Diagnosis	ICD-10-CM
I42.0	cardiomyopathy	Diagnosis	ICD-10-CM
I42.1	cardiomyopathy	Diagnosis	ICD-10-CM
I42.2	cardiomyopathy	Diagnosis	ICD-10-CM
I42.5	cardiomyopathy	Diagnosis	ICD-10-CM
I42.6	cardiomyopathy	Diagnosis	ICD-10-CM
I42.7	cardiomyopathy	Diagnosis	ICD-10-CM
I42.8	cardiomyopathy	Diagnosis	ICD-10-CM
I42.9	cardiomyopathy	Diagnosis	ICD-10-CM
I43	cardiomyopathy	Diagnosis	ICD-10-CM
Cardiac structural abnormality			
Q25.41	Absence and aplasia of aorta	Diagnosis	ICD-10-CM
Q25.48	Anomalous origin of subclavian artery	Diagnosis	ICD-10-CM
Q26.5	Anomalous portal venous connection	Diagnosis	ICD-10-CM
Q26.4	Anomalous pulmonary venous connection, unspecified	Diagnosis	ICD-10-CM
Q21.4	Aortopulmonary septal defect	Diagnosis	ICD-10-CM
Q25.5	Atresia of pulmonary artery	Diagnosis	ICD-10-CM
Q21.1	Atrial septal defect	Diagnosis	ICD-10-CM
Q21.2	Atrioventricular septal defect	Diagnosis	ICD-10-CM
Q25.1	Coarctation of aorta	Diagnosis	ICD-10-CM
Q25.71	Coarctation of pulmonary artery	Diagnosis	ICD-10-CM
Q20.0	Common arterial trunk	Diagnosis	ICD-10-CM
Q25.43	Congenital aneurysm of aorta	Diagnosis	ICD-10-CM
Q25.44	Congenital dilation of aorta	Diagnosis	ICD-10-CM
Q24.6	Congenital heart block	Diagnosis	ICD-10-CM
Q23.1	Congenital insufficiency of aortic valve	Diagnosis	ICD-10-CM
Q25.40	Congenital malformation of aorta unspecified	Diagnosis	ICD-10-CM
Q23.9	Congenital malformation of aortic and mitral valves, unspecified	Diagnosis	ICD-10-CM
Q20.9	Congenital malformation of cardiac chambers and connections, unspecified	Diagnosis	ICD-10-CM
Q21.9	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q28.9	Congenital malformation of circulatory system, unspecified	Diagnosis	ICD-10-CM
Q25.9	Congenital malformation of great arteries, unspecified	Diagnosis	ICD-10-CM
Q26.9	Congenital malformation of great vein, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q24.9	Congenital malformation of heart, unspecified	Diagnosis	ICD-10-CM
Q22.9	Congenital malformation of tricuspid valve, unspecified	Diagnosis	ICD-10-CM
Q23.3	Congenital mitral insufficiency	Diagnosis	ICD-10-CM
Q23.2	Congenital mitral stenosis	Diagnosis	ICD-10-CM
Q27.4	Congenital phlebectasia	Diagnosis	ICD-10-CM
Q25.72	Congenital pulmonary arteriovenous malformation	Diagnosis	ICD-10-CM
Q22.2	Congenital pulmonary valve insufficiency	Diagnosis	ICD-10-CM
Q22.1	Congenital pulmonary valve stenosis	Diagnosis	ICD-10-CM
Q23.0	Congenital stenosis of aortic valve	Diagnosis	ICD-10-CM
Q26.0	Congenital stenosis of vena cava	Diagnosis	ICD-10-CM
Q24.4	Congenital subaortic stenosis	Diagnosis	ICD-10-CM
Q22.4	Congenital tricuspid stenosis	Diagnosis	ICD-10-CM
Q24.2	Cor triatriatum	Diagnosis	ICD-10-CM
Q24.0	Dextrocardia	Diagnosis	ICD-10-CM
Q20.5	Discordant atrioventricular connection	Diagnosis	ICD-10-CM
Q20.3	Discordant ventriculoarterial connection	Diagnosis	ICD-10-CM
Q25.45	Double aortic arch	Diagnosis	ICD-10-CM
Q20.4	Double inlet ventricle	Diagnosis	ICD-10-CM
Q20.2	Double outlet left ventricle	Diagnosis	ICD-10-CM
Q20.1	Double outlet right ventricle	Diagnosis	ICD-10-CM
Q22.5	Ebstein's anomaly	Diagnosis	ICD-10-CM
I27.83	Eisenmenger's syndrome	Diagnosis	ICD-10-CM
Q25.42	Hypoplasia of aorta	Diagnosis	ICD-10-CM
Q23.4	Hypoplastic left heart syndrome	Diagnosis	ICD-10-CM
Q22.6	Hypoplastic right heart syndrome	Diagnosis	ICD-10-CM
Q25.21	Interruption of aortic arch	Diagnosis	ICD-10-CM
Q20.6	Isomerism of atrial appendages	Diagnosis	ICD-10-CM
Q24.1	Levocardia	Diagnosis	ICD-10-CM
Q24.5	Malformation of coronary vessels	Diagnosis	ICD-10-CM
Q25.29	Other atresia of aorta	Diagnosis	ICD-10-CM
Q25.49	Other congenital malformations of aorta	Diagnosis	ICD-10-CM
Q23.8	Other congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q20.8	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q21.8	Other congenital malformations of cardiac septa	Diagnosis	ICD-10-CM
Q26.8	Other congenital malformations of great veins	Diagnosis	ICD-10-CM
Q25.8	Other congenital malformations of other great arteries	Diagnosis	ICD-10-CM
Q25.79	Other congenital malformations of pulmonary artery	Diagnosis	ICD-10-CM
Q22.3	Other congenital malformations of pulmonary valve	Diagnosis	ICD-10-CM
Q22.8	Other congenital malformations of tricuspid valve	Diagnosis	ICD-10-CM
P29.38	Other persistent fetal circulation	Diagnosis	ICD-10-CM
Q28.8	Other specified congenital malformations of circulatory system	Diagnosis	ICD-10-CM
Q24.8	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
Q27.8	Other specified congenital malformations of peripheral vascular system	Diagnosis	ICD-10-CM
Q26.3	Partial anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q25.0	Patent ductus arteriosus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
Q26.1	Persistent left superior vena cava	Diagnosis	ICD-10-CM
Q24.3	Pulmonary infundibular stenosis	Diagnosis	ICD-10-CM
Q22.0	Pulmonary valve atresia	Diagnosis	ICD-10-CM
Q25.47	Right aortic arch	Diagnosis	ICD-10-CM
Q25.6	Stenosis of pulmonary artery	Diagnosis	ICD-10-CM
Q25.3	Supravalvular aortic stenosis	Diagnosis	ICD-10-CM
Q21.3	Tetralogy of Fallot	Diagnosis	ICD-10-CM
Q25.46	Tortuous aortic arch	Diagnosis	ICD-10-CM
Q26.2	Total anomalous pulmonary venous connection	Diagnosis	ICD-10-CM
Q21.0	Ventricular septal defect	Diagnosis	ICD-10-CM
Q209	unspecified congenital malformation of cardiac chambers and connections	Diagnosis	ICD-10-CM
Q219	Congenital malformation of cardiac septum, unspecified	Diagnosis	ICD-10-CM
Q23	congenital malformations of aortic and mitral valves	Diagnosis	ICD-10-CM
Q22	Congenital malformations of pulmonary and tricuspid valves	Diagnosis	ICD-10-CM
Q87410	Marfan syndrome with aortic dilation	Diagnosis	ICD-10-CM
Q8741	Marfan's syndrome with cardiovascular manifestations	Diagnosis	ICD-10-CM
Q87418	Marfan syndrome with other cardiovascular manifestations	Diagnosis	ICD-10-CM
Q8740	Marfan's syndrome, unspecified	Diagnosis	ICD-10-CM
P298	Other cardiovascular disorders originating in the perinatal period	Diagnosis	ICD-10-CM
Q208	Other congenital malformations of cardiac chambers and connections	Diagnosis	ICD-10-CM
P2938	other persistent fetal circulation	Diagnosis	ICD-10-CM
Q248	Other specified congenital malformations of heart	Diagnosis	ICD-10-CM
P293	Persistent fetal circulation	Diagnosis	ICD-10-CM
Q915	Trisomy 13, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q914	Trisomy 13, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q916	Trisomy 13, translocation	Diagnosis	ICD-10-CM
Q917	unspecified trisomy 13	Diagnosis	ICD-10-CM
Q911	Trisomy 18, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q910	Trisomy 18, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q912	Trisomy 18, translocation	Diagnosis	ICD-10-CM
Q913	Trisomy 18, unspecified	Diagnosis	ICD-10-CM
Q901	Trisomy 21, mosaicism (mitotic nondisjunction)	Diagnosis	ICD-10-CM
Q900	Trisomy 21, nonmosaicism (meiotic nondisjunction)	Diagnosis	ICD-10-CM
Q902	Trisomy 21, translocation	Diagnosis	ICD-10-CM
Q9381	Velo-cardio-facial syndrome	Diagnosis	ICD-10-CM
Q9382	Williams syndrome	Diagnosis	ICD-10-CM
All other diseases of the circulatory system			
I80	Phlebitis and thrombophlebitis	Diagnosis	ICD-10-CM
I80.0	Phlebitis and thrombophlebitis of superficial vessels of lower extremities	Diagnosis	ICD-10-CM
I80.00	Phlebitis and thrombophlebitis of superficial vessels of unspecified lower extremity	Diagnosis	ICD-10-CM
I80.01	Phlebitis and thrombophlebitis of superficial vessels of right lower extremity	Diagnosis	ICD-10-CM
I80.02	Phlebitis and thrombophlebitis of superficial vessels of left lower extremity	Diagnosis	ICD-10-CM
I80.03	Phlebitis and thrombophlebitis of superficial vessels of lower extremities,	Diagnosis	ICD-10-CM
I80.1	Phlebitis and thrombophlebitis of femoral vein	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I80.10	Phlebitis and thrombophlebitis of unspecified femoral vein	Diagnosis	ICD-10-CM
I80.11	Phlebitis and thrombophlebitis of right femoral vein	Diagnosis	ICD-10-CM
I80.12	Phlebitis and thrombophlebitis of left femoral vein	Diagnosis	ICD-10-CM
I80.13	Phlebitis and thrombophlebitis of femoral vein, bilateral	Diagnosis	ICD-10-CM
I80.2	Phlebitis and thrombophlebitis of other and unspecified deep vessels of lower extremities	Diagnosis	ICD-10-CM
I80.20	Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities	Diagnosis	ICD-10-CM
I80.201	Phlebitis and thrombophlebitis of unspecified deep vessels of right lower extremity	Diagnosis	ICD-10-CM
I80.202	Phlebitis and thrombophlebitis of unspecified deep vessels of left lower extremity	Diagnosis	ICD-10-CM
I80.203	Phlebitis and thrombophlebitis of unspecified deep vessels of lower extremities, bilateral	Diagnosis	ICD-10-CM
I80.209	Phlebitis and thrombophlebitis of unspecified deep vessels of unspecified lower extremity	Diagnosis	ICD-10-CM
I80.21	Phlebitis and thrombophlebitis of iliac vein	Diagnosis	ICD-10-CM
I80.211	Phlebitis and thrombophlebitis of right iliac vein	Diagnosis	ICD-10-CM
I80.212	Phlebitis and thrombophlebitis of left iliac vein	Diagnosis	ICD-10-CM
I80.213	Phlebitis and thrombophlebitis of iliac vein, bilateral	Diagnosis	ICD-10-CM
I80.219	Phlebitis and thrombophlebitis of unspecified iliac vein	Diagnosis	ICD-10-CM
I80.22	Phlebitis and thrombophlebitis of popliteal vein	Diagnosis	ICD-10-CM
I80.221	Phlebitis and thrombophlebitis of right popliteal vein	Diagnosis	ICD-10-CM
I80.222	Phlebitis and thrombophlebitis of left popliteal vein	Diagnosis	ICD-10-CM
I80.223	Phlebitis and thrombophlebitis of popliteal vein, bilateral	Diagnosis	ICD-10-CM
I80.229	Phlebitis and thrombophlebitis of unspecified popliteal vein	Diagnosis	ICD-10-CM
I80.23	Phlebitis and thrombophlebitis of tibial vein	Diagnosis	ICD-10-CM
I80.231	Phlebitis and thrombophlebitis of right tibial vein	Diagnosis	ICD-10-CM
I80.232	Phlebitis and thrombophlebitis of left tibial vein	Diagnosis	ICD-10-CM
I80.233	Phlebitis and thrombophlebitis of tibial vein, bilateral	Diagnosis	ICD-10-CM
I80.239	Phlebitis and thrombophlebitis of unspecified tibial vein	Diagnosis	ICD-10-CM
I80.24	Phlebitis and thrombophlebitis of peroneal vein	Diagnosis	ICD-10-CM
I80.241	Phlebitis and thrombophlebitis of right peroneal vein	Diagnosis	ICD-10-CM
I80.242	Phlebitis and thrombophlebitis of left peroneal vein	Diagnosis	ICD-10-CM
I80.243	Phlebitis and thrombophlebitis of peroneal vein, bilateral	Diagnosis	ICD-10-CM
I80.249	Phlebitis and thrombophlebitis of unspecified peroneal vein	Diagnosis	ICD-10-CM
I80.25	Phlebitis and thrombophlebitis of calf muscular vein	Diagnosis	ICD-10-CM
I80.251	Phlebitis and thrombophlebitis of right calf muscular vein	Diagnosis	ICD-10-CM
I80.252	Phlebitis and thrombophlebitis of left calf muscular vein	Diagnosis	ICD-10-CM
I80.253	Phlebitis and thrombophlebitis of calf muscular vein, bilateral	Diagnosis	ICD-10-CM
I80.259	Phlebitis and thrombophlebitis of unspecified calf muscular vein	Diagnosis	ICD-10-CM
I80.29	Phlebitis and thrombophlebitis of other deep vessels of lower extremities	Diagnosis	ICD-10-CM
I80.291	Phlebitis and thrombophlebitis of other deep vessels of right lower extremity	Diagnosis	ICD-10-CM
I80.292	Phlebitis and thrombophlebitis of other deep vessels of left lower extremity	Diagnosis	ICD-10-CM
I80.293	Phlebitis and thrombophlebitis of other deep vessels of lower extremity, bilateral	Diagnosis	ICD-10-CM
I80.299	Phlebitis and thrombophlebitis of other deep vessels of unspecified lower extremity	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I80.3	Phlebitis and thrombophlebitis of lower extremities, unspecified	Diagnosis	ICD-10-CM
I80.8	Phlebitis and thrombophlebitis of other sites	Diagnosis	ICD-10-CM
I80.9	Phlebitis and thrombophlebitis of unspecified site	Diagnosis	ICD-10-CM
I81	Portal vein thrombosis	Diagnosis	ICD-10-CM
I82	Other venous embolism and thrombosis	Diagnosis	ICD-10-CM
I82.0	Budd-Chiari syndrome	Diagnosis	ICD-10-CM
I82.1	Thrombophlebitis migrans	Diagnosis	ICD-10-CM
I82.2	Embolism and thrombosis of vena cava and other thoracic veins	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
I82.29	Embolism and thrombosis of other thoracic veins	Diagnosis	ICD-10-CM
I82.290	Acute embolism and thrombosis of other thoracic veins	Diagnosis	ICD-10-CM
I82.291	Chronic embolism and thrombosis of other thoracic veins	Diagnosis	ICD-10-CM
I82.3	Embolism and thrombosis of renal vein	Diagnosis	ICD-10-CM
I82.4	Acute embolism and thrombosis of deep veins of lower extremity	Diagnosis	ICD-10-CM
I82.40	Acute embolism and thrombosis of unspecified deep veins of lower extremity	Diagnosis	ICD-10-CM
I82.401	Acute embolism and thrombosis of unspecified deep veins of right lower extremity	Diagnosis	ICD-10-CM
I82.402	Acute embolism and thrombosis of unspecified deep veins of left lower extremity	Diagnosis	ICD-10-CM
I82.403	Acute embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.409	Acute embolism and thrombosis of unspecified deep veins of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.41	Acute embolism and thrombosis of femoral vein	Diagnosis	ICD-10-CM
I82.411	Acute embolism and thrombosis of right femoral vein	Diagnosis	ICD-10-CM
I82.412	Acute embolism and thrombosis of left femoral vein	Diagnosis	ICD-10-CM
I82.413	Acute embolism and thrombosis of femoral vein, bilateral	Diagnosis	ICD-10-CM
I82.419	Acute embolism and thrombosis of unspecified femoral vein	Diagnosis	ICD-10-CM
I82.42	Acute embolism and thrombosis of iliac vein	Diagnosis	ICD-10-CM
I82.421	Acute embolism and thrombosis of right iliac vein	Diagnosis	ICD-10-CM
I82.422	Acute embolism and thrombosis of left iliac vein	Diagnosis	ICD-10-CM
I82.423	Acute embolism and thrombosis of iliac vein, bilateral	Diagnosis	ICD-10-CM
I82.429	Acute embolism and thrombosis of unspecified iliac vein	Diagnosis	ICD-10-CM
I82.43	Acute embolism and thrombosis of popliteal vein	Diagnosis	ICD-10-CM
I82.431	Acute embolism and thrombosis of right popliteal vein	Diagnosis	ICD-10-CM
I82.432	Acute embolism and thrombosis of left popliteal vein	Diagnosis	ICD-10-CM
I82.433	Acute embolism and thrombosis of popliteal vein, bilateral	Diagnosis	ICD-10-CM
I82.439	Acute embolism and thrombosis of unspecified popliteal vein	Diagnosis	ICD-10-CM
I82.44	Acute embolism and thrombosis of tibial vein	Diagnosis	ICD-10-CM
I82.441	Acute embolism and thrombosis of right tibial vein	Diagnosis	ICD-10-CM
I82.442	Acute embolism and thrombosis of left tibial vein	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I82.443	Acute embolism and thrombosis of tibial vein, bilateral	Diagnosis	ICD-10-CM
I82.449	Acute embolism and thrombosis of unspecified tibial vein	Diagnosis	ICD-10-CM
I82.45	Acute embolism and thrombosis of peroneal vein	Diagnosis	ICD-10-CM
I82.451	Acute embolism and thrombosis of right peroneal vein	Diagnosis	ICD-10-CM
I82.452	Acute embolism and thrombosis of left peroneal vein	Diagnosis	ICD-10-CM
I82.453	Acute embolism and thrombosis of peroneal vein, bilateral	Diagnosis	ICD-10-CM
I82.459	Acute embolism and thrombosis of unspecified peroneal vein	Diagnosis	ICD-10-CM
I82.46	Acute embolism and thrombosis of calf muscular vein	Diagnosis	ICD-10-CM
I82.461	Acute embolism and thrombosis of right calf muscular vein	Diagnosis	ICD-10-CM
I82.462	Acute embolism and thrombosis of left calf muscular vein	Diagnosis	ICD-10-CM
I82.463	Acute embolism and thrombosis of calf muscular vein, bilateral	Diagnosis	ICD-10-CM
I82.469	Acute embolism and thrombosis of unspecified calf muscular vein	Diagnosis	ICD-10-CM
I82.49	Acute embolism and thrombosis of other specified deep vein of lower extremity	Diagnosis	ICD-10-CM
I82.491	Acute embolism and thrombosis of other specified deep vein of right lower extremity	Diagnosis	ICD-10-CM
I82.492	Acute embolism and thrombosis of other specified deep vein of left lower extremity	Diagnosis	ICD-10-CM
I82.493	Acute embolism and thrombosis of other specified deep vein of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.499	Acute embolism and thrombosis of other specified deep vein of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.4Y	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Y1	Acute embolism and thrombosis of unspecified deep veins of right proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Y2	Acute embolism and thrombosis of unspecified deep veins of left proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Y3	Acute embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.4Y9	Acute embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	Diagnosis	ICD-10-CM
I82.4Z	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity	Diagnosis	ICD-10-CM
I82.4Z1	Acute embolism and thrombosis of unspecified deep veins of right distal lower extremity	Diagnosis	ICD-10-CM
I82.4Z2	Acute embolism and thrombosis of unspecified deep veins of left distal lower extremity	Diagnosis	ICD-10-CM
I82.4Z3	Acute embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.4Z9	Acute embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity	Diagnosis	ICD-10-CM
I82.5	Chronic embolism and thrombosis of deep veins of lower extremity	Diagnosis	ICD-10-CM
I82.50	Chronic embolism and thrombosis of unspecified deep veins of lower extremity	Diagnosis	ICD-10-CM
I82.501	Chronic embolism and thrombosis of unspecified deep veins of right lower extremity	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I82.502	Chronic embolism and thrombosis of unspecified deep veins of left lower extremity	Diagnosis	ICD-10-CM
I82.503	Chronic embolism and thrombosis of unspecified deep veins of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.509	Chronic embolism and thrombosis of unspecified deep veins of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.51	Chronic embolism and thrombosis of femoral vein	Diagnosis	ICD-10-CM
I82.511	Chronic embolism and thrombosis of right femoral vein	Diagnosis	ICD-10-CM
I82.512	Chronic embolism and thrombosis of left femoral vein	Diagnosis	ICD-10-CM
I82.513	Chronic embolism and thrombosis of femoral vein, bilateral	Diagnosis	ICD-10-CM
I82.519	Chronic embolism and thrombosis of unspecified femoral vein	Diagnosis	ICD-10-CM
I82.52	Chronic embolism and thrombosis of iliac vein	Diagnosis	ICD-10-CM
I82.521	Chronic embolism and thrombosis of right iliac vein	Diagnosis	ICD-10-CM
I82.522	Chronic embolism and thrombosis of left iliac vein	Diagnosis	ICD-10-CM
I82.523	Chronic embolism and thrombosis of iliac vein, bilateral	Diagnosis	ICD-10-CM
I82.529	Chronic embolism and thrombosis of unspecified iliac vein	Diagnosis	ICD-10-CM
I82.53	Chronic embolism and thrombosis of popliteal vein	Diagnosis	ICD-10-CM
I82.531	Chronic embolism and thrombosis of right popliteal vein	Diagnosis	ICD-10-CM
I82.532	Chronic embolism and thrombosis of left popliteal vein	Diagnosis	ICD-10-CM
I82.533	Chronic embolism and thrombosis of popliteal vein, bilateral	Diagnosis	ICD-10-CM
I82.539	Chronic embolism and thrombosis of unspecified popliteal vein	Diagnosis	ICD-10-CM
I82.54	Chronic embolism and thrombosis of tibial vein	Diagnosis	ICD-10-CM
I82.541	Chronic embolism and thrombosis of right tibial vein	Diagnosis	ICD-10-CM
I82.542	Chronic embolism and thrombosis of left tibial vein	Diagnosis	ICD-10-CM
I82.543	Chronic embolism and thrombosis of tibial vein, bilateral	Diagnosis	ICD-10-CM
I82.549	Chronic embolism and thrombosis of unspecified tibial vein	Diagnosis	ICD-10-CM
I82.55	Chronic embolism and thrombosis of peroneal vein	Diagnosis	ICD-10-CM
I82.551	Chronic embolism and thrombosis of right peroneal vein	Diagnosis	ICD-10-CM
I82.552	Chronic embolism and thrombosis of left peroneal vein	Diagnosis	ICD-10-CM
I82.553	Chronic embolism and thrombosis of peroneal vein, bilateral	Diagnosis	ICD-10-CM
I82.559	Chronic embolism and thrombosis of unspecified peroneal vein	Diagnosis	ICD-10-CM
I82.56	Chronic embolism and thrombosis of calf muscular vein	Diagnosis	ICD-10-CM
I82.561	Chronic embolism and thrombosis of right calf muscular vein	Diagnosis	ICD-10-CM
I82.562	Chronic embolism and thrombosis of left calf muscular vein	Diagnosis	ICD-10-CM
I82.563	Chronic embolism and thrombosis of calf muscular vein, bilateral	Diagnosis	ICD-10-CM
I82.569	Chronic embolism and thrombosis of unspecified calf muscular vein	Diagnosis	ICD-10-CM
I82.59	Chronic embolism and thrombosis of other specified deep vein of lower extremity	Diagnosis	ICD-10-CM
I82.591	Chronic embolism and thrombosis of other specified deep vein of right lower extremity	Diagnosis	ICD-10-CM
I82.592	Chronic embolism and thrombosis of other specified deep vein of left lower extremity	Diagnosis	ICD-10-CM
I82.593	Chronic embolism and thrombosis of other specified deep vein of lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.599	Chronic embolism and thrombosis of other specified deep vein of unspecified lower extremity	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I82.5Y	Chronic embolism and thrombosis of unspecified deep veins of proximal lower extremity	Diagnosis	ICD-10-CM
I82.5Y1	Chronic embolism and thrombosis of unspecified deep veins of right proximal lower extremity	Diagnosis	ICD-10-CM
I82.5Y2	Chronic embolism and thrombosis of unspecified deep veins of left proximal lower extremity	Diagnosis	ICD-10-CM
I82.5Y3	Chronic embolism and thrombosis of unspecified deep veins of proximal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.5Y9	Chronic embolism and thrombosis of unspecified deep veins of unspecified proximal lower extremity	Diagnosis	ICD-10-CM
I82.5Z	Chronic embolism and thrombosis of unspecified deep veins of distal lower extremity	Diagnosis	ICD-10-CM
I82.5Z1	Chronic embolism and thrombosis of unspecified deep veins of right distal lower extremity	Diagnosis	ICD-10-CM
I82.5Z2	Chronic embolism and thrombosis of unspecified deep veins of left distal lower extremity	Diagnosis	ICD-10-CM
I82.5Z3	Chronic embolism and thrombosis of unspecified deep veins of distal lower extremity, bilateral	Diagnosis	ICD-10-CM
I82.5Z9	Chronic embolism and thrombosis of unspecified deep veins of unspecified distal lower extremity	Diagnosis	ICD-10-CM
I82.6	Acute embolism and thrombosis of veins of upper extremity	Diagnosis	ICD-10-CM
I82.60	Acute embolism and thrombosis of unspecified veins of upper extremity	Diagnosis	ICD-10-CM
I82.601	Acute embolism and thrombosis of unspecified veins of right upper extremity	Diagnosis	ICD-10-CM
I82.602	Acute embolism and thrombosis of unspecified veins of left upper extremity	Diagnosis	ICD-10-CM
I82.603	Acute embolism and thrombosis of unspecified veins of upper extremity,	Diagnosis	ICD-10-CM
I82.609	Acute embolism and thrombosis of unspecified veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.61	Acute embolism and thrombosis of superficial veins of upper extremity	Diagnosis	ICD-10-CM
I82.611	Acute embolism and thrombosis of superficial veins of right upper extremity	Diagnosis	ICD-10-CM
I82.612	Acute embolism and thrombosis of superficial veins of left upper extremity	Diagnosis	ICD-10-CM
I82.613	Acute embolism and thrombosis of superficial veins of upper extremity, bilateral	Diagnosis	ICD-10-CM
I82.619	Acute embolism and thrombosis of superficial veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.62	Acute embolism and thrombosis of deep veins of upper extremity	Diagnosis	ICD-10-CM
I82.621	Acute embolism and thrombosis of deep veins of right upper extremity	Diagnosis	ICD-10-CM
I82.622	Acute embolism and thrombosis of deep veins of left upper extremity	Diagnosis	ICD-10-CM
I82.623	Acute embolism and thrombosis of deep veins of upper extremity, bilateral	Diagnosis	ICD-10-CM
I82.629	Acute embolism and thrombosis of deep veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.7	Chronic embolism and thrombosis of veins of upper extremity	Diagnosis	ICD-10-CM
I82.70	Chronic embolism and thrombosis of unspecified veins of upper extremity	Diagnosis	ICD-10-CM
I82.701	Chronic embolism and thrombosis of unspecified veins of right upper extremity	Diagnosis	ICD-10-CM
I82.702	Chronic embolism and thrombosis of unspecified veins of left upper extremity	Diagnosis	ICD-10-CM
I82.703	Chronic embolism and thrombosis of unspecified veins of upper extremity, bilateral	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I82.709	Chronic embolism and thrombosis of unspecified veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.71	Chronic embolism and thrombosis of superficial veins of upper extremity	Diagnosis	ICD-10-CM
I82.711	Chronic embolism and thrombosis of superficial veins of right upper extremity	Diagnosis	ICD-10-CM
I82.712	Chronic embolism and thrombosis of superficial veins of left upper extremity	Diagnosis	ICD-10-CM
I82.713	Chronic embolism and thrombosis of superficial veins of upper extremity,	Diagnosis	ICD-10-CM
I82.719	Chronic embolism and thrombosis of superficial veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.72	Chronic embolism and thrombosis of deep veins of upper extremity	Diagnosis	ICD-10-CM
I82.721	Chronic embolism and thrombosis of deep veins of right upper extremity	Diagnosis	ICD-10-CM
I82.722	Chronic embolism and thrombosis of deep veins of left upper extremity	Diagnosis	ICD-10-CM
I82.723	Chronic embolism and thrombosis of deep veins of upper extremity, bilateral	Diagnosis	ICD-10-CM
I82.729	Chronic embolism and thrombosis of deep veins of unspecified upper extremity	Diagnosis	ICD-10-CM
I82.8	Embolism and thrombosis of other specified veins	Diagnosis	ICD-10-CM
I82.81	Embolism and thrombosis of superficial veins of lower extremities	Diagnosis	ICD-10-CM
I82.811	Embolism and thrombosis of superficial veins of right lower extremity	Diagnosis	ICD-10-CM
I82.812	Embolism and thrombosis of superficial veins of left lower extremity	Diagnosis	ICD-10-CM
I82.813	Embolism and thrombosis of superficial veins of lower extremities, bilateral	Diagnosis	ICD-10-CM
I82.819	Embolism and thrombosis of superficial veins of unspecified lower extremity	Diagnosis	ICD-10-CM
I82.89	Embolism and thrombosis of other specified veins	Diagnosis	ICD-10-CM
I82.890	Acute embolism and thrombosis of other specified veins	Diagnosis	ICD-10-CM
I82.891	Chronic embolism and thrombosis of other specified veins	Diagnosis	ICD-10-CM
I82.9	Embolism and thrombosis of unspecified vein	Diagnosis	ICD-10-CM
I82.90	Acute embolism and thrombosis of unspecified vein	Diagnosis	ICD-10-CM
I82.91	Chronic embolism and thrombosis of unspecified vein	Diagnosis	ICD-10-CM
I82.A	Embolism and thrombosis of axillary vein	Diagnosis	ICD-10-CM
I82.A1	Acute embolism and thrombosis of axillary vein	Diagnosis	ICD-10-CM
I82.A11	Acute embolism and thrombosis of right axillary vein	Diagnosis	ICD-10-CM
I82.A12	Acute embolism and thrombosis of left axillary vein	Diagnosis	ICD-10-CM
I82.A13	Acute embolism and thrombosis of axillary vein, bilateral	Diagnosis	ICD-10-CM
I82.A19	Acute embolism and thrombosis of unspecified axillary vein	Diagnosis	ICD-10-CM
I82.A2	Chronic embolism and thrombosis of axillary vein	Diagnosis	ICD-10-CM
I82.A21	Chronic embolism and thrombosis of right axillary vein	Diagnosis	ICD-10-CM
I82.A22	Chronic embolism and thrombosis of left axillary vein	Diagnosis	ICD-10-CM
I82.A23	Chronic embolism and thrombosis of axillary vein, bilateral	Diagnosis	ICD-10-CM
I82.A29	Chronic embolism and thrombosis of unspecified axillary vein	Diagnosis	ICD-10-CM
I82.B	Embolism and thrombosis of subclavian vein	Diagnosis	ICD-10-CM
I82.B1	Acute embolism and thrombosis of subclavian vein	Diagnosis	ICD-10-CM
I82.B11	Acute embolism and thrombosis of right subclavian vein	Diagnosis	ICD-10-CM
I82.B12	Acute embolism and thrombosis of left subclavian vein	Diagnosis	ICD-10-CM
I82.B13	Acute embolism and thrombosis of subclavian vein, bilateral	Diagnosis	ICD-10-CM
I82.B19	Acute embolism and thrombosis of unspecified subclavian vein	Diagnosis	ICD-10-CM
I82.B2	Chronic embolism and thrombosis of subclavian vein	Diagnosis	ICD-10-CM
I82.B21	Chronic embolism and thrombosis of right subclavian vein	Diagnosis	ICD-10-CM
I82.B22	Chronic embolism and thrombosis of left subclavian vein	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I82.B23	Chronic embolism and thrombosis of subclavian vein, bilateral	Diagnosis	ICD-10-CM
I82.B29	Chronic embolism and thrombosis of unspecified subclavian vein	Diagnosis	ICD-10-CM
I82.C	Embolism and thrombosis of internal jugular vein	Diagnosis	ICD-10-CM
I82.C1	Acute embolism and thrombosis of internal jugular vein	Diagnosis	ICD-10-CM
I82.C11	Acute embolism and thrombosis of right internal jugular vein	Diagnosis	ICD-10-CM
I82.C12	Acute embolism and thrombosis of left internal jugular vein	Diagnosis	ICD-10-CM
I82.C13	Acute embolism and thrombosis of internal jugular vein, bilateral	Diagnosis	ICD-10-CM
I82.C19	Acute embolism and thrombosis of unspecified internal jugular vein	Diagnosis	ICD-10-CM
I82.C2	Chronic embolism and thrombosis of internal jugular vein	Diagnosis	ICD-10-CM
I82.C21	Chronic embolism and thrombosis of right internal jugular vein	Diagnosis	ICD-10-CM
I82.C22	Chronic embolism and thrombosis of left internal jugular vein	Diagnosis	ICD-10-CM
I82.C23	Chronic embolism and thrombosis of internal jugular vein, bilateral	Diagnosis	ICD-10-CM
I82.C29	Chronic embolism and thrombosis of unspecified internal jugular vein	Diagnosis	ICD-10-CM
I83	Varicose veins of lower extremities	Diagnosis	ICD-10-CM
I83.0	Varicose veins of lower extremities with ulcer	Diagnosis	ICD-10-CM
I83.00	Varicose veins of unspecified lower extremity with ulcer	Diagnosis	ICD-10-CM
I83.001	Varicose veins of unspecified lower extremity with ulcer of thigh	Diagnosis	ICD-10-CM
I83.002	Varicose veins of unspecified lower extremity with ulcer of calf	Diagnosis	ICD-10-CM
I83.003	Varicose veins of unspecified lower extremity with ulcer of ankle	Diagnosis	ICD-10-CM
I83.004	Varicose veins of unspecified lower extremity with ulcer of heel and midfoot	Diagnosis	ICD-10-CM
I83.005	Varicose veins of unspecified lower extremity with ulcer other part of foot	Diagnosis	ICD-10-CM
I83.008	Varicose veins of unspecified lower extremity with ulcer other part of lower leg	Diagnosis	ICD-10-CM
I83.009	Varicose veins of unspecified lower extremity with ulcer of unspecified site	Diagnosis	ICD-10-CM
I83.01	Varicose veins of right lower extremity with ulcer	Diagnosis	ICD-10-CM
I83.011	Varicose veins of right lower extremity with ulcer of thigh	Diagnosis	ICD-10-CM
I83.012	Varicose veins of right lower extremity with ulcer of calf	Diagnosis	ICD-10-CM
I83.013	Varicose veins of right lower extremity with ulcer of ankle	Diagnosis	ICD-10-CM
I83.014	Varicose veins of right lower extremity with ulcer of heel and midfoot	Diagnosis	ICD-10-CM
I83.015	Varicose veins of right lower extremity with ulcer other part of foot	Diagnosis	ICD-10-CM
I83.018	Varicose veins of right lower extremity with ulcer other part of lower leg	Diagnosis	ICD-10-CM
I83.019	Varicose veins of right lower extremity with ulcer of unspecified site	Diagnosis	ICD-10-CM
I83.02	Varicose veins of left lower extremity with ulcer	Diagnosis	ICD-10-CM
I83.021	Varicose veins of left lower extremity with ulcer of thigh	Diagnosis	ICD-10-CM
I83.022	Varicose veins of left lower extremity with ulcer of calf	Diagnosis	ICD-10-CM
I83.023	Varicose veins of left lower extremity with ulcer of ankle	Diagnosis	ICD-10-CM
I83.024	Varicose veins of left lower extremity with ulcer of heel and midfoot	Diagnosis	ICD-10-CM
I83.025	Varicose veins of left lower extremity with ulcer other part of foot	Diagnosis	ICD-10-CM
I83.028	Varicose veins of left lower extremity with ulcer other part of lower leg	Diagnosis	ICD-10-CM
I83.029	Varicose veins of left lower extremity with ulcer of unspecified site	Diagnosis	ICD-10-CM
I83.1	Varicose veins of lower extremities with inflammation	Diagnosis	ICD-10-CM
I83.10	Varicose veins of unspecified lower extremity with inflammation	Diagnosis	ICD-10-CM
I83.11	Varicose veins of right lower extremity with inflammation	Diagnosis	ICD-10-CM
I83.12	Varicose veins of left lower extremity with inflammation	Diagnosis	ICD-10-CM
I83.2	Varicose veins of lower extremities with both ulcer and inflammation	Diagnosis	ICD-10-CM
I83.20	Varicose veins of unspecified lower extremity with both ulcer and inflammation	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I83.201	Varicose veins of unspecified lower extremity with both ulcer of thigh and inflammation	Diagnosis	ICD-10-CM
I83.202	Varicose veins of unspecified lower extremity with both ulcer of calf and inflammation	Diagnosis	ICD-10-CM
I83.203	Varicose veins of unspecified lower extremity with both ulcer of ankle and inflammation	Diagnosis	ICD-10-CM
I83.204	Varicose veins of unspecified lower extremity with both ulcer of heel and midfoot and inflammation	Diagnosis	ICD-10-CM
I83.205	Varicose veins of unspecified lower extremity with both ulcer other part of foot and inflammation	Diagnosis	ICD-10-CM
I83.208	Varicose veins of unspecified lower extremity with both ulcer of other part of lower extremity and inflammation	Diagnosis	ICD-10-CM
I83.209	Varicose veins of unspecified lower extremity with both ulcer of unspecified site and inflammation	Diagnosis	ICD-10-CM
I83.21	Varicose veins of right lower extremity with both ulcer and inflammation	Diagnosis	ICD-10-CM
I83.211	Varicose veins of right lower extremity with both ulcer of thigh and inflammation	Diagnosis	ICD-10-CM
I83.212	Varicose veins of right lower extremity with both ulcer of calf and inflammation	Diagnosis	ICD-10-CM
I83.213	Varicose veins of right lower extremity with both ulcer of ankle and inflammation	Diagnosis	ICD-10-CM
I83.214	Varicose veins of right lower extremity with both ulcer of heel and midfoot and inflammation	Diagnosis	ICD-10-CM
I83.215	Varicose veins of right lower extremity with both ulcer other part of foot and inflammation	Diagnosis	ICD-10-CM
I83.218	Varicose veins of right lower extremity with both ulcer of other part of lower extremity and inflammation	Diagnosis	ICD-10-CM
I83.219	Varicose veins of right lower extremity with both ulcer of unspecified site and inflammation	Diagnosis	ICD-10-CM
I83.22	Varicose veins of left lower extremity with both ulcer and inflammation	Diagnosis	ICD-10-CM
I83.221	Varicose veins of left lower extremity with both ulcer of thigh and inflammation	Diagnosis	ICD-10-CM
I83.222	Varicose veins of left lower extremity with both ulcer of calf and inflammation	Diagnosis	ICD-10-CM
I83.223	Varicose veins of left lower extremity with both ulcer of ankle and inflammation	Diagnosis	ICD-10-CM
I83.224	Varicose veins of left lower extremity with both ulcer of heel and midfoot and inflammation	Diagnosis	ICD-10-CM
I83.225	Varicose veins of left lower extremity with both ulcer other part of foot and inflammation	Diagnosis	ICD-10-CM
I83.228	Varicose veins of left lower extremity with both ulcer of other part of lower extremity and inflammation	Diagnosis	ICD-10-CM
I83.229	Varicose veins of left lower extremity with both ulcer of unspecified site and inflammation	Diagnosis	ICD-10-CM
I83.8	Varicose veins of lower extremities with other complications	Diagnosis	ICD-10-CM
I83.81	Varicose veins of lower extremities with pain	Diagnosis	ICD-10-CM
I83.811	Varicose veins of right lower extremity with pain	Diagnosis	ICD-10-CM
I83.812	Varicose veins of left lower extremity with pain	Diagnosis	ICD-10-CM
I83.813	Varicose veins of bilateral lower extremities with pain	Diagnosis	ICD-10-CM
I83.819	Varicose veins of unspecified lower extremity with pain	Diagnosis	ICD-10-CM
I83.89	Varicose veins of lower extremities with other complications	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I83.891	Varicose veins of right lower extremity with other complications	Diagnosis	ICD-10-CM
I83.892	Varicose veins of left lower extremity with other complications	Diagnosis	ICD-10-CM
I83.893	Varicose veins of bilateral lower extremities with other complications	Diagnosis	ICD-10-CM
I83.899	Varicose veins of unspecified lower extremity with other complications	Diagnosis	ICD-10-CM
I83.9	Asymptomatic varicose veins of lower extremities	Diagnosis	ICD-10-CM
I83.90	Asymptomatic varicose veins of unspecified lower extremity	Diagnosis	ICD-10-CM
I83.91	Asymptomatic varicose veins of right lower extremity	Diagnosis	ICD-10-CM
I83.92	Asymptomatic varicose veins of left lower extremity	Diagnosis	ICD-10-CM
I83.93	Asymptomatic varicose veins of bilateral lower extremities	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	Varicose veins of other sites	Diagnosis	ICD-10-CM
I86.0	Sublingual varices	Diagnosis	ICD-10-CM
I86.1	Scrotal varices	Diagnosis	ICD-10-CM
I86.2	Pelvic varices	Diagnosis	ICD-10-CM
I86.3	Vulval varices	Diagnosis	ICD-10-CM
I86.4	Gastric varices	Diagnosis	ICD-10-CM
I86.8	Varicose veins of other specified sites	Diagnosis	ICD-10-CM
I87	Other disorders of veins	Diagnosis	ICD-10-CM
I87.0	Postthrombotic syndrome	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
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

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Code	Description	Code Category	Code Type
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
I87.1	Compression of vein	Diagnosis	ICD-10-CM
I87.2	Venous insufficiency (chronic) (peripheral)	Diagnosis	ICD-10-CM
I87.3	Chronic venous hypertension (idiopathic)	Diagnosis	ICD-10-CM
I87.30	Chronic venous hypertension (idiopathic) without complications	Diagnosis	ICD-10-CM
I87.301	Chronic venous hypertension (idiopathic) without complications of right lower extremity	Diagnosis	ICD-10-CM
I87.302	Chronic venous hypertension (idiopathic) without complications of left lower extremity	Diagnosis	ICD-10-CM
I87.303	Chronic venous hypertension (idiopathic) without complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.309	Chronic venous hypertension (idiopathic) without complications of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.31	Chronic venous hypertension (idiopathic) with ulcer	Diagnosis	ICD-10-CM
I87.311	Chronic venous hypertension (idiopathic) with ulcer of right lower extremity	Diagnosis	ICD-10-CM
I87.312	Chronic venous hypertension (idiopathic) with ulcer of left lower extremity	Diagnosis	ICD-10-CM
I87.313	Chronic venous hypertension (idiopathic) with ulcer of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.319	Chronic venous hypertension (idiopathic) with ulcer of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.32	Chronic venous hypertension (idiopathic) with inflammation	Diagnosis	ICD-10-CM
I87.321	Chronic venous hypertension (idiopathic) with inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87.322	Chronic venous hypertension (idiopathic) with inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87.323	Chronic venous hypertension (idiopathic) with inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.329	Chronic venous hypertension (idiopathic) with inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.33	Chronic venous hypertension (idiopathic) with ulcer and inflammation	Diagnosis	ICD-10-CM
I87.331	Chronic venous hypertension (idiopathic) with ulcer and inflammation of right lower extremity	Diagnosis	ICD-10-CM
I87.332	Chronic venous hypertension (idiopathic) with ulcer and inflammation of left lower extremity	Diagnosis	ICD-10-CM
I87.333	Chronic venous hypertension (idiopathic) with ulcer and inflammation of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.339	Chronic venous hypertension (idiopathic) with ulcer and inflammation of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.39	Chronic venous hypertension (idiopathic) with other complications	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I87.391	Chronic venous hypertension (idiopathic) with other complications of right lower extremity	Diagnosis	ICD-10-CM
I87.392	Chronic venous hypertension (idiopathic) with other complications of left lower extremity	Diagnosis	ICD-10-CM
I87.393	Chronic venous hypertension (idiopathic) with other complications of bilateral lower extremity	Diagnosis	ICD-10-CM
I87.399	Chronic venous hypertension (idiopathic) with other complications of unspecified lower extremity	Diagnosis	ICD-10-CM
I87.8	Other specified disorders of veins	Diagnosis	ICD-10-CM
I87.9	Disorder of vein, unspecified	Diagnosis	ICD-10-CM
I88	Nonspecific lymphadenitis	Diagnosis	ICD-10-CM
I88.0	Nonspecific mesenteric lymphadenitis	Diagnosis	ICD-10-CM
I88.1	Chronic lymphadenitis, except mesenteric	Diagnosis	ICD-10-CM
I88.8	Other nonspecific lymphadenitis	Diagnosis	ICD-10-CM
I88.9	Nonspecific lymphadenitis, unspecified	Diagnosis	ICD-10-CM
I89	Other noninfective disorders of lymphatic vessels and lymph nodes	Diagnosis	ICD-10-CM
I89.0	Lymphedema, not elsewhere classified	Diagnosis	ICD-10-CM
I89.1	Lymphangitis	Diagnosis	ICD-10-CM
I89.8	Other specified noninfective disorders of lymphatic vessels and lymph nodes	Diagnosis	ICD-10-CM
I89.9	Noninfective disorder of lymphatic vessels and lymph nodes, unspecified	Diagnosis	ICD-10-CM
I95	Hypotension	Diagnosis	ICD-10-CM
I95.0	Idiopathic hypotension	Diagnosis	ICD-10-CM
I95.1	Orthostatic hypotension	Diagnosis	ICD-10-CM
I95.2	Hypotension due to drugs	Diagnosis	ICD-10-CM
I95.3	Hypotension of hemodialysis	Diagnosis	ICD-10-CM
I95.8	Other hypotension	Diagnosis	ICD-10-CM
I95.81	Postprocedural hypotension	Diagnosis	ICD-10-CM
I95.89	Other hypotension	Diagnosis	ICD-10-CM
I95.9	Hypotension, unspecified	Diagnosis	ICD-10-CM
I96	Gangrene, not elsewhere classified	Diagnosis	ICD-10-CM
I97	Intraoperative and postprocedural complications and disorders of circulatory system, not elsewhere classified	Diagnosis	ICD-10-CM
I97.0	Postcardiotomy syndrome	Diagnosis	ICD-10-CM
I97.1	Other postprocedural cardiac functional disturbances	Diagnosis	ICD-10-CM
I97.11	Postprocedural cardiac insufficiency	Diagnosis	ICD-10-CM
I97.110	Postprocedural cardiac insufficiency following cardiac surgery	Diagnosis	ICD-10-CM
I97.111	Postprocedural cardiac insufficiency following other surgery	Diagnosis	ICD-10-CM
I97.12	Postprocedural cardiac arrest	Diagnosis	ICD-10-CM
I97.120	Postprocedural cardiac arrest following cardiac surgery	Diagnosis	ICD-10-CM
I97.121	Postprocedural cardiac arrest following other surgery	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
I97.19	Other postprocedural cardiac functional disturbances	Diagnosis	ICD-10-CM
I97.190	Other postprocedural cardiac functional disturbances following cardiac surgery	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
I97.191	Other postprocedural cardiac functional disturbances following other surgery	Diagnosis	ICD-10-CM
I97.2	Postmastectomy lymphedema syndrome	Diagnosis	ICD-10-CM
I97.3	Postprocedural hypertension	Diagnosis	ICD-10-CM
I97.4	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a procedure	Diagnosis	ICD-10-CM
I97.41	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a circulatory system procedure	Diagnosis	ICD-10-CM
I97.410	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac catheterization	Diagnosis	ICD-10-CM
I97.411	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating a cardiac bypass	Diagnosis	ICD-10-CM
I97.418	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other circulatory system procedure	Diagnosis	ICD-10-CM
I97.42	Intraoperative hemorrhage and hematoma of a circulatory system organ or structure complicating other procedure	Diagnosis	ICD-10-CM
I97.5	Accidental puncture and laceration of a circulatory system organ or structure during a procedure	Diagnosis	ICD-10-CM
I97.51	Accidental puncture and laceration of a circulatory system organ or structure during a circulatory system procedure	Diagnosis	ICD-10-CM
I97.52	Accidental puncture and laceration of a circulatory system organ or structure during other procedure	Diagnosis	ICD-10-CM
I97.6	Postprocedural hemorrhage, hematoma and seroma of a circulatory system organ or structure following a procedure	Diagnosis	ICD-10-CM
I97.61	Postprocedural hemorrhage of a circulatory system organ or structure following a circulatory system procedure	Diagnosis	ICD-10-CM
I97.610	Postprocedural hemorrhage of a circulatory system organ or structure following a cardiac catheterization	Diagnosis	ICD-10-CM
I97.611	Postprocedural hemorrhage of a circulatory system organ or structure following cardiac bypass	Diagnosis	ICD-10-CM
I97.618	Postprocedural hemorrhage of a circulatory system organ or structure following other circulatory system procedure	Diagnosis	ICD-10-CM
I97.62	Postprocedural hemorrhage, hematoma and seroma of a circulatory system organ or structure following other procedure	Diagnosis	ICD-10-CM
I97.620	Postprocedural hemorrhage of a circulatory system organ or structure following other procedure	Diagnosis	ICD-10-CM
I97.621	Postprocedural hematoma of a circulatory system organ or structure following other procedure	Diagnosis	ICD-10-CM
I97.622	Postprocedural seroma of a circulatory system organ or structure following other procedure	Diagnosis	ICD-10-CM
I97.63	Postprocedural hematoma of a circulatory system organ or structure following a circulatory system procedure	Diagnosis	ICD-10-CM
I97.630	Postprocedural hematoma of a circulatory system organ or structure following a cardiac catheterization	Diagnosis	ICD-10-CM
I97.631	Postprocedural hematoma of a circulatory system organ or structure following cardiac bypass	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
I97.638	Postprocedural hematoma of a circulatory system organ or structure following other circulatory system procedure	Diagnosis	ICD-10-CM
I97.64	Postprocedural seroma of a circulatory system organ or structure following a circulatory system procedure	Diagnosis	ICD-10-CM
I97.640	Postprocedural seroma of a circulatory system organ or structure following a cardiac catheterization	Diagnosis	ICD-10-CM
I97.641	Postprocedural seroma of a circulatory system organ or structure following cardiac bypass	Diagnosis	ICD-10-CM
I97.648	Postprocedural seroma of a circulatory system organ or structure following other circulatory system procedure	Diagnosis	ICD-10-CM
I97.7	Intraoperative cardiac functional disturbances	Diagnosis	ICD-10-CM
I97.71	Intraoperative cardiac arrest	Diagnosis	ICD-10-CM
I97.710	Intraoperative cardiac arrest during cardiac surgery	Diagnosis	ICD-10-CM
I97.711	Intraoperative cardiac arrest during other surgery	Diagnosis	ICD-10-CM
I97.79	Other intraoperative cardiac functional disturbances	Diagnosis	ICD-10-CM
I97.790	Other intraoperative cardiac functional disturbances during cardiac surgery	Diagnosis	ICD-10-CM
I97.791	Other intraoperative cardiac functional disturbances during other surgery	Diagnosis	ICD-10-CM
I97.8	Other intraoperative and postprocedural complications and disorders of the circulatory system, not elsewhere classified	Diagnosis	ICD-10-CM
I97.81	Intraoperative cerebrovascular infarction	Diagnosis	ICD-10-CM
I97.810	Intraoperative cerebrovascular infarction during cardiac surgery	Diagnosis	ICD-10-CM
I97.811	Intraoperative cerebrovascular infarction during other surgery	Diagnosis	ICD-10-CM
I97.82	Postprocedural cerebrovascular infarction	Diagnosis	ICD-10-CM
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	Diagnosis	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	Diagnosis	ICD-10-CM
I97.88	Other intraoperative complications of the circulatory system, not elsewhere classified	Diagnosis	ICD-10-CM
I97.89	Other postprocedural complications and disorders of the circulatory system, not elsewhere classified	Diagnosis	ICD-10-CM
I99	Other and unspecified disorders of circulatory system	Diagnosis	ICD-10-CM
I99.8	Other disorder of circulatory system	Diagnosis	ICD-10-CM
I99.9	Unspecified disorder of circulatory system	Diagnosis	ICD-10-CM
Epilepsy or recurrent seizures			
G40.001	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.009	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.011	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.019	Localization-related (focal) (partial) idiopathic epilepsy and epileptic syndromes with seizures of localized onset, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.101	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.109	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, not intractable, without status	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
G40.111	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.119	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with simple partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.201	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status	Diagnosis	ICD-10-CM
G40.211	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.219	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.301	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.309	Generalized idiopathic epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.311	Generalized idiopathic epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.319	Generalized idiopathic epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.401	Other generalized epilepsy and epileptic syndromes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.409	Other generalized epilepsy and epileptic syndromes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.411	Other generalized epilepsy and epileptic syndromes, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.419	Other generalized epilepsy and epileptic syndromes, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.501	Epileptic seizures related to external causes, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.509	Epileptic seizures related to external causes, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.801	Other epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.802	Other epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.803	Other epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.804	Other epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.811	Lennox-Gastaut syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.812	Lennox-Gastaut syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.813	Lennox-Gastaut syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.814	Lennox-Gastaut syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.821	Epileptic spasms, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.822	Epileptic spasms, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.823	Epileptic spasms, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.824	Epileptic spasms, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.833	Dravet syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
G40.834	Dravet syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.901	Epilepsy, unspecified, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.909	Epilepsy, unspecified, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.911	Epilepsy, unspecified, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.919	Epilepsy, unspecified, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A01	Absence epileptic syndrome, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A09	Absence epileptic syndrome, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.A11	Absence epileptic syndrome, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.A19	Absence epileptic syndrome, intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B01	Juvenile myoclonic epilepsy, not intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B09	Juvenile myoclonic epilepsy, not intractable, without status epilepticus	Diagnosis	ICD-10-CM
G40.B11	Juvenile myoclonic epilepsy, intractable, with status epilepticus	Diagnosis	ICD-10-CM
G40.B19	Juvenile myoclonic epilepsy, intractable, without status epilepticus	Diagnosis	ICD-10-CM
Other seizure or convulsions			
F44.5	Conversion disorder with seizures or convulsions	Diagnosis	ICD-10-CM
G40.42	Cyclin-Dependent Kinase-Like 5 Deficiency Disorder	Diagnosis	ICD-10-CM
G40.89	Other seizures	Diagnosis	ICD-10-CM
R56.9	Unspecified convulsions	Diagnosis	ICD-10-CM
Depression			
0545F	Plan for follow-up care for major depressive disorder, documented (MDD ADOL)	Procedure	CPT-2
1040F	DSM-5 criteria for major depressive disorder documented at the initial evaluation (MDD, MDD ADOL)	Procedure	CPT-2
2060F	Patient interviewed directly on or before date of diagnosis of major depressive disorder (MDD ADOL)	Procedure	CPT-2
3088F	Major depressive disorder, mild (MDD)	Procedure	CPT-2
3089F	Major depressive disorder, moderate (MDD)	Procedure	CPT-2
3090F	Major depressive disorder, severe without psychotic features (MDD)	Procedure	CPT-2
3091F	Major depressive disorder, severe with psychotic features (MDD)	Procedure	CPT-2
3092F	Major depressive disorder, in remission (MDD)	Procedure	CPT-2
3093F	Documentation of new diagnosis of initial or recurrent episode of major depressive disorder (MDD)	Procedure	CPT-2
3353F	Mild to moderate depressive symptoms as categorized by using a standardized depression screening/assessment tool (MDD)	Procedure	CPT-2
3354F	Clinically significant depressive symptoms as categorized by using a standardized depression screening/assessment tool (MDD)	Procedure	CPT-2
4063F	Antidepressant pharmacotherapy considered and not prescribed (MDD ADOL)	Procedure	CPT-2
4064F	Antidepressant pharmacotherapy prescribed (MDD, MDD ADOL)	Procedure	CPT-2
90867	Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; initial, including cortical mapping, motor threshold determination, delivery and management	Procedure	CPT-4
90868	Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; subsequent delivery and management, per session	Procedure	CPT-4
90869	Therapeutic repetitive transcranial magnetic stimulation (TMS) treatment; subsequent motor threshold re-determination with delivery and management	Procedure	CPT-4
F06.31	Mood disorder due to known physiological condition with depressive features	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F06.32	Mood disorder due to known physiological condition with major depressive-like episode	Diagnosis	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	Diagnosis	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	Diagnosis	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	Diagnosis	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	Diagnosis	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	Diagnosis	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	Diagnosis	ICD-10-CM
F32.8	Other depressive episodes	Diagnosis	ICD-10-CM
F32.89	Other specified depressive episodes	Diagnosis	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	Diagnosis	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	Diagnosis	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	Diagnosis	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	Diagnosis	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	Diagnosis	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	Diagnosis	ICD-10-CM
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	Diagnosis	ICD-10-CM
F34.1	Dysthymic disorder	Diagnosis	ICD-10-CM
G8126	Patient with a diagnosis of major depression documented as being treated with antidepressant medication during the entire 84 day (12 week) acute treatment phase	Procedure	HCPCS
G8127	Patient with a diagnosis of major depression not documented as being treated with antidepressant medication during the entire 84 day (12 week) acute treatment phase	Procedure	HCPCS
G8128	Clinician documented that patient was not an eligible candidate for antidepressant medication during the entire 12 week acute treatment phase measure	Procedure	HCPCS
G8129	Patient documented as being treated with antidepressant medication for at least 6 months continuous treatment phase	Procedure	HCPCS
G8130	Patient not documented as being treated with antidepressant medication for at least 6 months continuous treatment phase	Procedure	HCPCS
G8131	Clinician documented that patient was not an eligible candidate for antidepressant medication for continuous treatment phase	Procedure	HCPCS
G8466	Clinician documented that patient is not an eligible candidate for suicide risk assessment; major depressive disorder, in remission	Procedure	HCPCS
G8467	Documentation of new diagnosis of initial or recurrent episode of major depressive disorder	Procedure	HCPCS
G8930	Assessment of depression severity at the initial evaluation	Procedure	HCPCS
G8931	Assessment of depression severity not documented, reason not given	Procedure	HCPCS
G8959	Clinician treating major depressive disorder communicates to clinician treating comorbid condition	Procedure	HCPCS

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Code	Description	Code Category	Code Type
G8960	Clinician treating major depressive disorder did not communicate to clinician treating comorbid condition, reason not given	Procedure	HCPCS
G9193	Clinician documented that patient with a diagnosis of major depression was not an eligible candidate for antidepressant medication treatment or patient did not have a diagnosis of major depression	Procedure	HCPCS
G9194	Patient with a diagnosis of major depression documented as being treated with antidepressant medication during the entire 180 day (6 month) continuation treatment phase	Procedure	HCPCS
G9195	Patient with a diagnosis of major depression not documented as being treated with antidepressant medication during the entire 180 day (6 months) continuation treatment phase	Procedure	HCPCS
G9212	DSM-IVTR criteria for major depressive disorder documented at the initial evaluation	Procedure	HCPCS
G9213	DSM-IV-TR criteria for major depressive disorder not documented at the initial evaluation, reason not otherwise specified	Procedure	HCPCS
G9232	Clinician treating major depressive disorder did not communicate to clinician treating comorbid condition for specified patient reason (e.g., patient is unable to communicate the diagnosis of a comorbid condition; the patient is unwilling to communicate the diagnosis of a comorbid condition; or the patient is unaware of the comorbid condition, or any other specified patient reason)	Procedure	HCPCS
G9509	Adult patients 18 years of age or older with major depression or dysthymia who reached remission at twelve months as demonstrated by a twelve-month (+/-60 days) PHQ-9 or PHQ-9M score of less than 5	Procedure	HCPCS
G9573	Adult patients 18 years of age or older with major depression or dysthymia who did not reach remission at six months as demonstrated by a six-month (+/-60 days) PHQ-9 or PHQ-9M score of less than five	Procedure	HCPCS
G9574	Adult patients 18 years of age or older with major depression or dysthymia who did not reach remission at six months as demonstrated by a six-month (+/-60 days) PHQ-9 or PHQ-9M score of less than five; either PHQ-9 or PHQ-9M score was not assessed or is greater than or equal to five	Procedure	HCPCS
G9717	Documentation stating the patient has had a diagnosis of depression or has had a diagnosis of bipolar disorder	Procedure	HCPCS
M1019	Adolescent patients 12 to 17 years of age with major depression or dysthymia who reached remission at 12 months as demonstrated by a 12 month (+/-60 days) PHQ-9 or PHQ-9M score of less than 5	Procedure	HCPCS
S3005	Performance measurement, evaluation of patient self assessment, depression	Procedure	HCPCS
Anxiety			
F06.4	Anxiety disorder due to known physiological condition	Diagnosis	ICD-10-CM
F40.00	Agoraphobia, unspecified	Diagnosis	ICD-10-CM
F40.01	Agoraphobia with panic disorder	Diagnosis	ICD-10-CM
F40.02	Agoraphobia without panic disorder	Diagnosis	ICD-10-CM
F40.10	Social phobia, unspecified	Diagnosis	ICD-10-CM
F40.11	Social phobia, generalized	Diagnosis	ICD-10-CM
F40.210	Arachnophobia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F40.218	Other animal type phobia	Diagnosis	ICD-10-CM
F40.220	Fear of thunderstorms	Diagnosis	ICD-10-CM
F40.228	Other natural environment type phobia	Diagnosis	ICD-10-CM
F40.230	Fear of blood	Diagnosis	ICD-10-CM
F40.231	Fear of injections and transfusions	Diagnosis	ICD-10-CM
F40.232	Fear of other medical care	Diagnosis	ICD-10-CM
F40.233	Fear of injury	Diagnosis	ICD-10-CM
F40.240	Claustrophobia	Diagnosis	ICD-10-CM
F40.241	Acrophobia	Diagnosis	ICD-10-CM
F40.242	Fear of bridges	Diagnosis	ICD-10-CM
F40.243	Fear of flying	Diagnosis	ICD-10-CM
F40.248	Other situational type phobia	Diagnosis	ICD-10-CM
F40.290	Androphobia	Diagnosis	ICD-10-CM
F40.291	Gynephobia	Diagnosis	ICD-10-CM
F40.298	Other specified phobia	Diagnosis	ICD-10-CM
F40.8	Other phobic anxiety disorders	Diagnosis	ICD-10-CM
F40.9	Phobic anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F41.0	Panic disorder [episodic paroxysmal anxiety]	Diagnosis	ICD-10-CM
F41.1	Generalized anxiety disorder	Diagnosis	ICD-10-CM
F41.3	Other mixed anxiety disorders	Diagnosis	ICD-10-CM
F41.8	Other specified anxiety disorders	Diagnosis	ICD-10-CM
F41.9	Anxiety disorder, unspecified	Diagnosis	ICD-10-CM
F42.2	Mixed obsessional thoughts and acts	Diagnosis	ICD-10-CM
F42.3	Hoarding disorder	Diagnosis	ICD-10-CM
F42.4	Excoriation (skin-picking) disorder	Diagnosis	ICD-10-CM
F42.8	Other obsessive-compulsive disorder	Diagnosis	ICD-10-CM
F42.9	Obsessive-compulsive disorder, unspecified	Diagnosis	ICD-10-CM
F43.0	Acute stress reaction	Diagnosis	ICD-10-CM
F44.9	Dissociative and conversion disorder, unspecified	Diagnosis	ICD-10-CM
F45.8	Other somatoform disorders	Diagnosis	ICD-10-CM
R45.7	State of emotional shock and stress, unspecified	Diagnosis	ICD-10-CM
Bipolar Disorder			
F31	Bipolar disorder	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	Diagnosis	ICD-10-CM
F31.1	Bipolar disorder, current episode manic without psychotic features	Diagnosis	ICD-10-CM
F31.10	Bipolar disorder, current episode manic without psychotic features, unspecified	Diagnosis	ICD-10-CM
F31.11	Bipolar disorder, current episode manic without psychotic features, mild	Diagnosis	ICD-10-CM
F31.12	Bipolar disorder, current episode manic without psychotic features, moderate	Diagnosis	ICD-10-CM
F31.13	Bipolar disorder, current episode manic without psychotic features, severe	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	Diagnosis	ICD-10-CM
F31.3	Bipolar disorder, current episode depressed, mild or moderate severity	Diagnosis	ICD-10-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	Diagnosis	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	Diagnosis	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.6	Bipolar disorder, current episode mixed	Diagnosis	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	Diagnosis	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	Diagnosis	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	Diagnosis	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	Diagnosis	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	Diagnosis	ICD-10-CM
F31.7	Bipolar disorder, currently in remission	Diagnosis	ICD-10-CM
F31.70	Bipolar disorder, currently in remission, most recent episode unspecified	Diagnosis	ICD-10-CM
F31.71	Bipolar disorder, in partial remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.72	Bipolar disorder, in full remission, most recent episode hypomanic	Diagnosis	ICD-10-CM
F31.73	Bipolar disorder, in partial remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.74	Bipolar disorder, in full remission, most recent episode manic	Diagnosis	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	Diagnosis	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	Diagnosis	ICD-10-CM
F31.8	Other bipolar disorders	Diagnosis	ICD-10-CM
F31.81	Bipolar II disorder	Diagnosis	ICD-10-CM
F31.89	Other bipolar disorder	Diagnosis	ICD-10-CM
F31.9	Bipolar disorder, unspecified	Diagnosis	ICD-10-CM
Sleep Disorder			
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
F11.182	Opioid abuse with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.982	Opioid use, unspecified with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F13.182	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.282	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.982	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder,	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F19.182	Other psychoactive substance abuse with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.21	Other psychoactive substance dependence, in remission	Diagnosis	ICD-10-CM
F19.282	Other psychoactive substance dependence with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F19.982	Other psychoactive substance use, unspecified with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F51.01	Primary insomnia	Diagnosis	ICD-10-CM
F51.02	Adjustment Insomnia	Diagnosis	ICD-10-CM
F51.03	Paradoxical insomnia	Diagnosis	ICD-10-CM
F51.09	Other insomnia not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F51.11	Primary Hypersomnia	Diagnosis	ICD-10-CM
F51.12	Insufficient sleep syndrome	Diagnosis	ICD-10-CM
F51.19	Other hypersomnia not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
F51.3	Sleepwalking	Diagnosis	ICD-10-CM
F51.4	Night Terrors	Diagnosis	ICD-10-CM
F51.5	Nightmare Disorder	Diagnosis	ICD-10-CM
F51.8	Other sleep disorders not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
G25.81	Restless Legs Syndrome RLS	Diagnosis	ICD-10-CM
G47.00	Insomnia (NOS)	Diagnosis	ICD-10-CM
G47.01	Insomnia Due to Medical Condition	Diagnosis	ICD-10-CM
G47.10	Hypersomnia (NOS)	Diagnosis	ICD-10-CM
G47.11	Idiopathic Hypersomnia With Long Sleep Time	Diagnosis	ICD-10-CM
G47.12	Idiopathic Hypersomnia Without Long Sleep Time	Diagnosis	ICD-10-CM
G47.13	Recurrent Hypersomnia	Diagnosis	ICD-10-CM
G47.14	Hypersomnia Due to Medical Condition	Diagnosis	ICD-10-CM
G47.20	Circadian Rhythm Sleep Disorders (NOS)	Diagnosis	ICD-10-CM
G47.21	Delayed Sleep Phase Type	Diagnosis	ICD-10-CM
G47.22	Advanced Sleep Phase Type	Diagnosis	ICD-10-CM
G47.23	Irregular Sleep-Wake Type	Diagnosis	ICD-10-CM
G47.24	Free-Running Type	Diagnosis	ICD-10-CM
G47.26	Shift Work Type (Shift Work Disorder)	Diagnosis	ICD-10-CM
G47.30	Unspecified Sleep Apnea	Diagnosis	ICD-10-CM
G47.31	Primary Central Sleep Apnea	Diagnosis	ICD-10-CM
G47.33	Obstructive Sleep Apnea	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
G47.37	Central Sleep Apnea/Complex Sleep Apnea	Diagnosis	ICD-10-CM
G47.39	Other Sleep Apnea	Diagnosis	ICD-10-CM
G47.411	Narcolepsy With Cataplexy	Diagnosis	ICD-10-CM
G47.419	Narcolepsy Without Cataplexy	Diagnosis	ICD-10-CM
G47.51	Confusional Arousals	Diagnosis	ICD-10-CM
G47.52	REM Sleep Behavior Disorder	Diagnosis	ICD-10-CM
G47.53	Recurrent Isolated Sleep Paralysis	Diagnosis	ICD-10-CM
G47.59	Other parasomnia	Diagnosis	ICD-10-CM
G47.61	Periodic Limb Movement Disorder	Diagnosis	ICD-10-CM
G47.62	Sleep Related Leg Cramps	Diagnosis	ICD-10-CM
G47.63	Sleep Related Bruxism	Diagnosis	ICD-10-CM
R06.00	Dyspnea, unspecified	Diagnosis	ICD-10-CM
R06.09	Other forms of dyspnea	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
R06.3	Periodic breathing	Diagnosis	ICD-10-CM
R06.81	Apnea, not elsewhere specified	Diagnosis	ICD-10-CM
R06.83	Snoring	Diagnosis	ICD-10-CM
R06.89	Other abnormalities of breathing	Diagnosis	ICD-10-CM
Z72.820	Sleep Deprivation	Diagnosis	ICD-10-CM
Psychotic Disorder			
F06.0	Psychotic disorder with hallucinations due to known physiological condition	Diagnosis	ICD-10-CM
F06.1	Catatonic disorder due to known physiological condition	Diagnosis	ICD-10-CM
F06.2	Psychotic disorder with delusions due to known physiological condition	Diagnosis	ICD-10-CM
F20.0	Paranoid schizophrenia	Diagnosis	ICD-10-CM
F20.1	Disorganized schizophrenia	Diagnosis	ICD-10-CM
F20.2	Catatonic schizophrenia	Diagnosis	ICD-10-CM
F20.3	Undifferentiated schizophrenia	Diagnosis	ICD-10-CM
F20.5	Residual schizophrenia	Diagnosis	ICD-10-CM
F20.81	Schizophreniform disorder	Diagnosis	ICD-10-CM
F20.89	Other schizophrenia	Diagnosis	ICD-10-CM
F20.9	Schizophrenia, unspecified	Diagnosis	ICD-10-CM
F21	Schizotypal disorder	Diagnosis	ICD-10-CM
F22	Delusional disorders	Diagnosis	ICD-10-CM
F23	Brief psychotic disorder	Diagnosis	ICD-10-CM
F24	Shared psychotic disorder	Diagnosis	ICD-10-CM
F25.0	Schizoaffective disorder, bipolar type	Diagnosis	ICD-10-CM
F25.1	Schizoaffective disorder, depressive type	Diagnosis	ICD-10-CM
F25.8	Other schizoaffective disorders	Diagnosis	ICD-10-CM
F25.9	Schizoaffective disorder, unspecified	Diagnosis	ICD-10-CM
F28	Other psychotic disorder not due to a substance or known physiological	Diagnosis	ICD-10-CM
F29	Unspecified psychosis not due to a substance or known physiological condition	Diagnosis	ICD-10-CM
R44.0	Auditory hallucinations	Diagnosis	ICD-10-CM
R44.2	Other hallucinations	Diagnosis	ICD-10-CM
R44.3	Hallucinations, unspecified	Diagnosis	ICD-10-CM
Post-Traumatic Stress Disorder (PTSD)			
F43.10	Post-traumatic stress disorder, unspecified	Diagnosis	ICD-10-CM
F43.11	Post-traumatic stress disorder, acute	Diagnosis	ICD-10-CM
F43.12	Post-traumatic stress disorder, chronic	Diagnosis	ICD-10-CM
Manic Episode			
F30	Manic episode	Diagnosis	ICD-10-CM
F30.1	Manic episode without psychotic symptoms	Diagnosis	ICD-10-CM
F30.10	Manic episode without psychotic symptoms, unspecified	Diagnosis	ICD-10-CM
F30.11	Manic episode without psychotic symptoms, mild	Diagnosis	ICD-10-CM
F30.12	Manic episode without psychotic symptoms, moderate	Diagnosis	ICD-10-CM
F30.13	Manic episode, severe, without psychotic symptoms	Diagnosis	ICD-10-CM
F30.2	Manic episode, severe with psychotic symptoms	Diagnosis	ICD-10-CM
F30.3	Manic episode in partial remission	Diagnosis	ICD-10-CM
F30.4	Manic episode in full remission	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F30.8	Other manic episodes	Diagnosis	ICD-10-CM
F30.9	Manic episode, unspecified	Diagnosis	ICD-10-CM
Autistic Disorder			
F84.0	Autistic disorder	Diagnosis	ICD-10-CM
F84.3	Other childhood disintegrative disorder	Diagnosis	ICD-10-CM
F84.5	Asperger's syndrome	Diagnosis	ICD-10-CM
F84.8	Other pervasive developmental disorders	Diagnosis	ICD-10-CM
F84.9	Pervasive developmental disorder, unspecified	Diagnosis	ICD-10-CM
Any Substance-Related Disorders			
F13.10	Sedative, hypnotic or anxiolytic abuse, uncomplicated	Diagnosis	ICD-10-CM
F13.120	Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.121	Sedative, hypnotic or anxiolytic abuse with intoxication delirium	Diagnosis	ICD-10-CM
F13.129	Sedative, hypnotic or anxiolytic abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.130	Sedative, hypnotic or anxiolytic abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.131	Sedative, hypnotic or anxiolytic abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F13.132	Sedative, hypnotic or anxiolytic abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13.139	Sedative, hypnotic or anxiolytic abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.14	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.150	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.151	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.159	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.180	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.181	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.182	Sedative, hypnotic or anxiolytic abuse with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.188	Sedative, hypnotic or anxiolytic abuse with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.19	Sedative, hypnotic or anxiolytic abuse with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.20	Sedative, hypnotic or anxiolytic dependence, uncomplicated	Diagnosis	ICD-10-CM
F13.220	Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.221	Sedative, hypnotic or anxiolytic dependence with intoxication delirium	Diagnosis	ICD-10-CM
F13.229	Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.230	Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.231	Sedative, hypnotic or anxiolytic dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F13.232	Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F13.239	Sedative, hypnotic or anxiolytic dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F13.24	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.250	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.251	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.259	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.26	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F13.27	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.280	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM
F13.281	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.282	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.288	Sedative, hypnotic or anxiolytic dependence with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.29	Sedative, hypnotic or anxiolytic dependence with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.90	Sedative, hypnotic, or anxiolytic use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F13.920	Sedative, hypnotic or anxiolytic use, unspecified with intoxication,	Diagnosis	ICD-10-CM
F13.921	Sedative, hypnotic or anxiolytic use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F13.929	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.930	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.931	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F13.932	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal with perceptual disturbances	Diagnosis	ICD-10-CM
F13.939	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.94	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.950	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.951	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.959	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.96	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F13.97	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting dementia	Diagnosis	ICD-10-CM
F13.980	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced anxiety disorder	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F13.981	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.982	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.988	Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F13.99	Sedative, hypnotic or anxiolytic use, unspecified with unspecified sedative, hypnotic or anxiolytic-induced disorder	Diagnosis	ICD-10-CM
F16.10	Hallucinogen abuse, uncomplicated	Diagnosis	ICD-10-CM
F16.120	Hallucinogen abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.121	Hallucinogen abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F16.122	Hallucinogen abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F16.129	Hallucinogen abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.14	Hallucinogen abuse with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.150	Hallucinogen abuse with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.151	Hallucinogen abuse with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.159	Hallucinogen abuse with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.180	Hallucinogen abuse with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.183	Hallucinogen abuse with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.188	Hallucinogen abuse with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.19	Hallucinogen abuse with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.20	Hallucinogen dependence, uncomplicated	Diagnosis	ICD-10-CM
F16.220	Hallucinogen dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.221	Hallucinogen dependence with intoxication with delirium	Diagnosis	ICD-10-CM
F16.229	Hallucinogen dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.24	Hallucinogen dependence with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.250	Hallucinogen dependence with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F16.251	Hallucinogen dependence with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.259	Hallucinogen dependence with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.280	Hallucinogen dependence with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.283	Hallucinogen dependence with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.288	Hallucinogen dependence with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.29	Hallucinogen dependence with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.90	Hallucinogen use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F16.920	Hallucinogen use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F16.921	Hallucinogen use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F16.929	Hallucinogen use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F16.94	Hallucinogen use, unspecified with hallucinogen-induced mood disorder	Diagnosis	ICD-10-CM
F16.950	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F16.951	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F16.959	Hallucinogen use, unspecified with hallucinogen-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F16.980	Hallucinogen use, unspecified with hallucinogen-induced anxiety disorder	Diagnosis	ICD-10-CM
F16.983	Hallucinogen use, unspecified with hallucinogen persisting perception disorder (flashbacks)	Diagnosis	ICD-10-CM
F16.988	Hallucinogen use, unspecified with other hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F16.99	Hallucinogen use, unspecified with unspecified hallucinogen-induced disorder	Diagnosis	ICD-10-CM
F18.10	Inhalant abuse, uncomplicated	Diagnosis	ICD-10-CM
F18.120	Inhalant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.121	Inhalant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F18.129	Inhalant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.14	Inhalant abuse with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.150	Inhalant abuse with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.151	Inhalant abuse with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.159	Inhalant abuse with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.17	Inhalant abuse with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.180	Inhalant abuse with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.188	Inhalant abuse with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.19	Inhalant abuse with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.20	Inhalant dependence, uncomplicated	Diagnosis	ICD-10-CM
F18.220	Inhalant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.221	Inhalant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F18.229	Inhalant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.24	Inhalant dependence with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.250	Inhalant dependence with inhalant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F18.251	Inhalant dependence with inhalant-induced psychotic disorder with	Diagnosis	ICD-10-CM
F18.259	Inhalant dependence with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.27	Inhalant dependence with inhalant-induced dementia	Diagnosis	ICD-10-CM
F18.280	Inhalant dependence with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.288	Inhalant dependence with other inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.29	Inhalant dependence with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F18.90	Inhalant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F18.920	Inhalant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F18.921	Inhalant use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F18.929	Inhalant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F18.94	Inhalant use, unspecified with inhalant-induced mood disorder	Diagnosis	ICD-10-CM
F18.950	Inhalant use, unspecified with inhalant-induced psychotic disorder with	Diagnosis	ICD-10-CM
F18.951	Inhalant use, unspecified with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F18.959	Inhalant use, unspecified with inhalant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F18.97	Inhalant use, unspecified with inhalant-induced persisting dementia	Diagnosis	ICD-10-CM
F18.980	Inhalant use, unspecified with inhalant-induced anxiety disorder	Diagnosis	ICD-10-CM
F18.988	Inhalant use, unspecified with other inhalant-induced disorder	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F18.99	Inhalant use, unspecified with unspecified inhalant-induced disorder	Diagnosis	ICD-10-CM
F19.10	Other psychoactive substance abuse, uncomplicated	Diagnosis	ICD-10-CM
F19.120	Other psychoactive substance abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.121	Other psychoactive substance abuse with intoxication delirium	Diagnosis	ICD-10-CM
F19.122	Other psychoactive substance abuse with intoxication with perceptual disturbances	Diagnosis	ICD-10-CM
F19.129	Other psychoactive substance abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.130	Other psychoactive substance abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.131	Other psychoactive substance abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F19.132	Other psychoactive substance abuse with withdrawal with perceptual	Diagnosis	ICD-10-CM
F19.139	Other psychoactive substance abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.14	Other psychoactive substance abuse with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.150	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.151	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.159	Other psychoactive substance abuse with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.16	Other psychoactive substance abuse with psychoactive substance-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F19.17	Other psychoactive substance abuse with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.180	Other psychoactive substance abuse with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.181	Other psychoactive substance abuse with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.182	Other psychoactive substance abuse with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.188	Other psychoactive substance abuse with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.19	Other psychoactive substance abuse with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.20	Other psychoactive substance dependence, uncomplicated	Diagnosis	ICD-10-CM
F19.220	Other psychoactive substance dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.221	Other psychoactive substance dependence with intoxication delirium	Diagnosis	ICD-10-CM
F19.222	Other psychoactive substance dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.229	Other psychoactive substance dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.230	Other psychoactive substance dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.231	Other psychoactive substance dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F19.232	Other psychoactive substance dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.239	Other psychoactive substance dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F19.24	Other psychoactive substance dependence with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.250	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.251	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.259	Other psychoactive substance dependence with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.26	Other psychoactive substance dependence with psychoactive substance-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F19.27	Other psychoactive substance dependence with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
F19.280	Other psychoactive substance dependence with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.281	Other psychoactive substance dependence with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.282	Other psychoactive substance dependence with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.288	Other psychoactive substance dependence with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.29	Other psychoactive substance dependence with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.90	Other psychoactive substance use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F19.920	Other psychoactive substance use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.921	Other psychoactive substance use, unspecified with intoxication with delirium	Diagnosis	ICD-10-CM
F19.922	Other psychoactive substance use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.929	Other psychoactive substance use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.930	Other psychoactive substance use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.931	Other psychoactive substance use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F19.932	Other psychoactive substance use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.939	Other psychoactive substance use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.94	Other psychoactive substance use, unspecified with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.950	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.951	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.959	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.96	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F19.97	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F19.980	Other psychoactive substance use, unspecified with psychoactive substance-induced anxiety disorder	Diagnosis	ICD-10-CM
F19.981	Other psychoactive substance use, unspecified with psychoactive substance-induced sexual dysfunction	Diagnosis	ICD-10-CM
F19.982	Other psychoactive substance use, unspecified with psychoactive substance-induced sleep disorder	Diagnosis	ICD-10-CM
F19.988	Other psychoactive substance use, unspecified with other psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F19.99	Other psychoactive substance use, unspecified with unspecified psychoactive substance-induced disorder	Diagnosis	ICD-10-CM
F10	Alcohol related disorders	Diagnosis	ICD-10-CM
F10.1	Alcohol abuse	Diagnosis	ICD-10-CM
F10.10	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F10.11	Alcohol abuse, in remission	Diagnosis	ICD-10-CM
F10.12	Alcohol abuse with intoxication	Diagnosis	ICD-10-CM
F10.120	Alcohol abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.121	Alcohol abuse with intoxication delirium	Diagnosis	ICD-10-CM
F10.129	Alcohol abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.13	Alcohol abuse, with withdrawal	Diagnosis	ICD-10-CM
F10.130	Alcohol abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.131	Alcohol abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F10.132	Alcohol abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.139	Alcohol abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.14	Alcohol abuse with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.15	Alcohol abuse with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.151	Alcohol abuse with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.159	Alcohol abuse with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.18	Alcohol abuse with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.180	Alcohol abuse with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.181	Alcohol abuse with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.182	Alcohol abuse with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.188	Alcohol abuse with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.19	Alcohol abuse with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.2	Alcohol dependence	Diagnosis	ICD-10-CM
F10.20	Alcohol dependence, uncomplicated	Diagnosis	ICD-10-CM
F10.21	Alcohol dependence, in remission	Diagnosis	ICD-10-CM
F10.22	Alcohol dependence with intoxication	Diagnosis	ICD-10-CM
F10.220	Alcohol dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.221	Alcohol dependence with intoxication delirium	Diagnosis	ICD-10-CM
F10.229	Alcohol dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.23	Alcohol dependence with withdrawal	Diagnosis	ICD-10-CM
F10.230	Alcohol dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.231	Alcohol dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F10.232	Alcohol dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F10.239	Alcohol dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.24	Alcohol dependence with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.25	Alcohol dependence with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.250	Alcohol dependence with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.251	Alcohol dependence with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.259	Alcohol dependence with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.26	Alcohol dependence with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F10.27	Alcohol dependence with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.28	Alcohol dependence with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.280	Alcohol dependence with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.281	Alcohol dependence with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.282	Alcohol dependence with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.288	Alcohol dependence with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.29	Alcohol dependence with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.9	Alcohol use, unspecified	Diagnosis	ICD-10-CM
F10.90	Alcohol use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F10.91	Alcohol use, unspecified, in remission	Diagnosis	ICD-10-CM
F10.92	Alcohol use, unspecified with intoxication	Diagnosis	ICD-10-CM
F10.920	Alcohol use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.921	Alcohol use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F10.929	Alcohol use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.93	Alcohol use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F10.930	Alcohol use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.931	Alcohol use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F10.932	Alcohol use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.939	Alcohol use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.94	Alcohol use, unspecified with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.95	Alcohol use, unspecified with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.950	Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.951	Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.959	Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.96	Alcohol use, unspecified with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.98	Alcohol use, unspecified with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F11.10	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F11.120	Opioid abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.121	Opioid abuse with intoxication delirium	Diagnosis	ICD-10-CM
F11.122	Opioid abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.129	Opioid abuse with intoxication, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F11.13	Opioid abuse with withdrawal	Diagnosis	ICD-10-CM
F11.14	Opioid abuse with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.150	Opioid abuse with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.151	Opioid abuse with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.159	Opioid abuse with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.181	Opioid abuse with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.182	Opioid abuse with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.188	Opioid abuse with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.19	Opioid abuse with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.20	Opioid dependence, uncomplicated	Diagnosis	ICD-10-CM
F11.220	Opioid dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.221	Opioid dependence with intoxication delirium	Diagnosis	ICD-10-CM
F11.222	Opioid dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.229	Opioid dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.23	Opioid dependence with withdrawal	Diagnosis	ICD-10-CM
F11.24	Opioid dependence with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.250	Opioid dependence with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.251	Opioid dependence with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.259	Opioid dependence with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.281	Opioid dependence with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.288	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.29	Opioid dependence with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.90	Opioid use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F11.920	Opioid use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.921	Opioid use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F11.922	Opioid use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.929	Opioid use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.93	Opioid use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F11.94	Opioid use, unspecified with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.950	Opioid use, unspecified with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.951	Opioid use, unspecified with opioid-induced psychotic disorder with	Diagnosis	ICD-10-CM
F11.959	Opioid use, unspecified with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.981	Opioid use, unspecified with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.982	Opioid use, unspecified with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.988	Opioid use, unspecified with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.99	Opioid use, unspecified with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F12	Cannabis related disorders	Diagnosis	ICD-10-CM
F12.1	Cannabis abuse	Diagnosis	ICD-10-CM
F12.10	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F12.11	Cannabis abuse, in remission	Diagnosis	ICD-10-CM
F12.12	Cannabis abuse with intoxication	Diagnosis	ICD-10-CM
F12.120	Cannabis abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.121	Cannabis abuse with intoxication delirium	Diagnosis	ICD-10-CM
F12.122	Cannabis abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F12.129	Cannabis abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.13	Cannabis abuse with withdrawal	Diagnosis	ICD-10-CM
F12.15	Cannabis abuse with psychotic disorder	Diagnosis	ICD-10-CM
F12.150	Cannabis abuse with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.151	Cannabis abuse with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.159	Cannabis abuse with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.18	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.180	Cannabis abuse with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.188	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.19	Cannabis abuse with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.2	Cannabis dependence	Diagnosis	ICD-10-CM
F12.20	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F12.21	Cannabis dependence, in remission	Diagnosis	ICD-10-CM
F12.22	Cannabis dependence with intoxication	Diagnosis	ICD-10-CM
F12.220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM
F12.222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.23	Cannabis dependence with withdrawal	Diagnosis	ICD-10-CM
F12.25	Cannabis dependence with psychotic disorder	Diagnosis	ICD-10-CM
F12.250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.28	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.29	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.9	Cannabis use, unspecified	Diagnosis	ICD-10-CM
F12.90	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F12.91	Cannabis use, unspecified, in remission	Diagnosis	ICD-10-CM
F12.92	Cannabis use, unspecified with intoxication	Diagnosis	ICD-10-CM
F12.920	Cannabis use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.921	Cannabis use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F12.922	Cannabis use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.929	Cannabis use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.93	Cannabis use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F12.95	Cannabis use, unspecified with psychotic disorder	Diagnosis	ICD-10-CM
F12.950	Cannabis use, unspecified with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.951	Cannabis use, unspecified with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.959	Cannabis use, unspecified with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.98	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.980	Cannabis use, unspecified with anxiety disorder	Diagnosis	ICD-10-CM
F12.988	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.99	Cannabis use, unspecified with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F14	Cocaine related disorders	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F14.1	Cocaine abuse	Diagnosis	ICD-10-CM
F14.10	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F14.11	Cocaine abuse, in remission	Diagnosis	ICD-10-CM
F14.12	Cocaine abuse with intoxication	Diagnosis	ICD-10-CM
F14.120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.121	Cocaine abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F14.122	Cocaine abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.129	Cocaine abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.13	Cocaine abuse, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.14	Cocaine abuse with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.15	Cocaine abuse with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.18	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.180	Cocaine abuse with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.181	Cocaine abuse with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.188	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.19	Cocaine abuse with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.2	Cocaine dependence	Diagnosis	ICD-10-CM
F14.20	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F14.21	Cocaine dependence, in remission	Diagnosis	ICD-10-CM
F14.22	Cocaine dependence with intoxication	Diagnosis	ICD-10-CM
F14.220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM
F14.222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.23	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F14.24	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.25	Cocaine dependence with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.28	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.29	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.9	Cocaine use, unspecified	Diagnosis	ICD-10-CM
F14.90	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F14.91	Cocaine use, unspecified, in remission	Diagnosis	ICD-10-CM
F14.92	Cocaine use, unspecified with intoxication	Diagnosis	ICD-10-CM
F14.920	Cocaine use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F14.921	Cocaine use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F14.922	Cocaine use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.929	Cocaine use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.93	Cocaine use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.94	Cocaine use, unspecified with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.95	Cocaine use, unspecified with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.950	Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.951	Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.959	Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.98	Cocaine use, unspecified with other specified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.980	Cocaine use, unspecified with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.981	Cocaine use, unspecified with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.988	Cocaine use, unspecified with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.99	Cocaine use, unspecified with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F15.10	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F15.120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.121	Other stimulant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F15.122	Other stimulant abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.129	Other stimulant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.13	Other stimulant abuse with withdrawal	Diagnosis	ICD-10-CM
F15.14	Other stimulant abuse with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.150	Other stimulant abuse with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.151	Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.159	Other stimulant abuse with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.180	Other stimulant abuse with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.181	Other stimulant abuse with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.188	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.19	Other stimulant abuse with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.20	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F15.94	Other stimulant use, unspecified with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.950	Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.951	Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.959	Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.980	Other stimulant use, unspecified with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.981	Other stimulant use, unspecified with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.988	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.99	Other stimulant use, unspecified with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F17	Nicotine dependence	Diagnosis	ICD-10-CM
F17.2	Nicotine dependence	Diagnosis	ICD-10-CM
F17.20	Nicotine dependence, unspecified	Diagnosis	ICD-10-CM
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.21	Nicotine dependence, cigarettes	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.22	Nicotine dependence, chewing tobacco	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.29	Nicotine dependence, other tobacco product	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
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
G2068	Medication assisted treatment, buprenorphine (oral); 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
G2069	Medication assisted treatment, buprenorphine (injectable); 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
G2070	Medication assisted treatment, buprenorphine (implant insertion); 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
G2071	Medication assisted treatment, buprenorphine (implant removal); 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
G2072	Medication assisted treatment, buprenorphine (implant insertion and removal); 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
G2073	Medication assisted treatment, naltrexone; 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
G2079	Take home supply of buprenorphine (oral); 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
HZ81ZZZ	Medication Management for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ84ZZZ	Medication Management for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS
HZ85ZZZ	Medication Management for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ91ZZZ	Pharmacotherapy for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ94ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
HZ95ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
J0571	Buprenorphine, oral, 1 mg	Procedure	HCPCS
J0572	Buprenorphine/naloxone, oral, less than or equal to 3 mg buprenorphine	Procedure	HCPCS
J0573	Buprenorphine/naloxone, oral, greater than 3 mg, but less than or equal to 6 mg buprenorphine	Procedure	HCPCS
J0574	Buprenorphine/naloxone, oral, greater than 6 mg, but less than or equal to 10 mg buprenorphine	Procedure	HCPCS
J0575	Buprenorphine/naloxone, oral, greater than 10 mg buprenorphine	Procedure	HCPCS
J0592	Injection, buprenorphine HCl, 0.1 mg	Procedure	HCPCS
S4990	Nicotine patches, legend	Procedure	HCPCS
S4991	Nicotine patches, non-legend	Procedure	HCPCS
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X1D	Poisoning by opium, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.0X1S	Poisoning by opium, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X2D	Poisoning by opium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X2S	Poisoning by opium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.0X3A	Poisoning by opium, assault, initial encounter	Diagnosis	ICD-10-CM
T40.0X3D	Poisoning by opium, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X3S	Poisoning by opium, assault, sequela	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X4D	Poisoning by opium, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X4S	Poisoning by opium, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X5A	Adverse effect of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X5D	Adverse effect of opium, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X5S	Adverse effect of opium, sequela	Diagnosis	ICD-10-CM
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X1D	Poisoning by heroin, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.1X1S	Poisoning by heroin, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X2D	Poisoning by heroin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X2S	Poisoning by heroin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.1X3A	Poisoning by heroin, assault, initial encounter	Diagnosis	ICD-10-CM
T40.1X3D	Poisoning by heroin, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X3S	Poisoning by heroin, assault, sequela	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.1X4D	Poisoning by heroin, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X4S	Poisoning by heroin, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X1D	Poisoning by other opioids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.2X1S	Poisoning by other opioids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X2D	Poisoning by other opioids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X2S	Poisoning by other opioids, intentional self-harm, sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.2X3A	Poisoning by other opioids, assault, initial encounter	Diagnosis	ICD-10-CM
T40.2X3D	Poisoning by other opioids, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X3S	Poisoning by other opioids, assault, sequela	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X4D	Poisoning by other opioids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X4S	Poisoning by other opioids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X5A	Adverse effect of other opioids, initial encounter	Diagnosis	ICD-10-CM
T40.2X5D	Adverse effect of other opioids, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X5S	Adverse effect of other opioids, sequela	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X1D	Poisoning by methadone, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.3X1S	Poisoning by methadone, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X2D	Poisoning by methadone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X2S	Poisoning by methadone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.3X3A	Poisoning by methadone, assault, initial encounter	Diagnosis	ICD-10-CM
T40.3X3D	Poisoning by methadone, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X3S	Poisoning by methadone, assault, sequela	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X4D	Poisoning by methadone, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X4S	Poisoning by methadone, undetermined, sequela	Diagnosis	ICD-10-CM
T40.3X5A	Adverse effect of methadone, initial encounter	Diagnosis	ICD-10-CM
T40.3X5D	Adverse effect of methadone, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X5S	Adverse effect of methadone, sequela	Diagnosis	ICD-10-CM
T40.411A	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.411D	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.411S	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.412D	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.412S	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.413A	Poisoning by fentanyl or fentanyl analogs, assault, initial encounter	Diagnosis	ICD-10-CM
T40.413D	Poisoning by fentanyl or fentanyl analogs, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.413S	Poisoning by fentanyl or fentanyl analogs, assault, sequela	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.414D	Poisoning by fentanyl or fentanyl analogs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.414S	Poisoning by fentanyl or fentanyl analogs, undetermined, sequela	Diagnosis	ICD-10-CM
T40.415A	Adverse effect of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.415D	Adverse effect of fentanyl or fentanyl analogs, subsequent encounter	Diagnosis	ICD-10-CM
T40.415S	Adverse effect of fentanyl or fentanyl analogs, sequela	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.421D	Poisoning by tramadol, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.421S	Poisoning by tramadol, accidental (unintentional), sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.422D	Poisoning by tramadol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.422S	Poisoning by tramadol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.423A	Poisoning by tramadol, assault, initial encounter	Diagnosis	ICD-10-CM
T40.423D	Poisoning by tramadol, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.423S	Poisoning by tramadol, assault, sequela	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.424D	Poisoning by tramadol, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.424S	Poisoning by tramadol, undetermined, sequela	Diagnosis	ICD-10-CM
T40.425A	Adverse effect of tramadol, initial encounter	Diagnosis	ICD-10-CM
T40.425D	Adverse effect of tramadol, subsequent encounter	Diagnosis	ICD-10-CM
T40.425S	Adverse effect of tramadol, sequela	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.492D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.492S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.493A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.493D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.493S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.495A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.495D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.495S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X1D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.4X1S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X2D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X2S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.4X3A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.4X3D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X3S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.4X4D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X4S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.4X5A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X5D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X5S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.601D	Poisoning by unspecified narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.601S	Poisoning by unspecified narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.602D	Poisoning by unspecified narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.602S	Poisoning by unspecified narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.603A	Poisoning by unspecified narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.603D	Poisoning by unspecified narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.603S	Poisoning by unspecified narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.604D	Poisoning by unspecified narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.604S	Poisoning by unspecified narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.605A	Adverse effect of unspecified narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.605D	Adverse effect of unspecified narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.605S	Adverse effect of unspecified narcotics, sequela	Diagnosis	ICD-10-CM
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.691D	Poisoning by other narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.691S	Poisoning by other narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.692D	Poisoning by other narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.692S	Poisoning by other narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.693A	Poisoning by other narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.693D	Poisoning by other narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.693S	Poisoning by other narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.694D	Poisoning by other narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.694S	Poisoning by other narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.695A	Adverse effect of other narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.695D	Adverse effect of other narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.695S	Adverse effect of other narcotics, sequela	Diagnosis	ICD-10-CM
U07.0	Vaping related disorder	Diagnosis	ICD-10-CM
Z87891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
Opioid-Related Disorders			
F11.10	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F11.120	Opioid abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.121	Opioid abuse with intoxication delirium	Diagnosis	ICD-10-CM
F11.122	Opioid abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.129	Opioid abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.13	Opioid abuse with withdrawal	Diagnosis	ICD-10-CM
F11.14	Opioid abuse with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.150	Opioid abuse with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F11.151	Opioid abuse with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.159	Opioid abuse with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.181	Opioid abuse with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.182	Opioid abuse with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.188	Opioid abuse with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.19	Opioid abuse with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.20	Opioid dependence, uncomplicated	Diagnosis	ICD-10-CM
F11.220	Opioid dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.221	Opioid dependence with intoxication delirium	Diagnosis	ICD-10-CM
F11.222	Opioid dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.229	Opioid dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.23	Opioid dependence with withdrawal	Diagnosis	ICD-10-CM
F11.24	Opioid dependence with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.250	Opioid dependence with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.251	Opioid dependence with opioid-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F11.259	Opioid dependence with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.281	Opioid dependence with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.282	Opioid dependence with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.288	Opioid dependence with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.29	Opioid dependence with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
F11.90	Opioid use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F11.920	Opioid use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F11.921	Opioid use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F11.922	Opioid use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F11.929	Opioid use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F11.93	Opioid use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F11.94	Opioid use, unspecified with opioid-induced mood disorder	Diagnosis	ICD-10-CM
F11.950	Opioid use, unspecified with opioid-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F11.951	Opioid use, unspecified with opioid-induced psychotic disorder with	Diagnosis	ICD-10-CM
F11.959	Opioid use, unspecified with opioid-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F11.981	Opioid use, unspecified with opioid-induced sexual dysfunction	Diagnosis	ICD-10-CM
F11.982	Opioid use, unspecified with opioid-induced sleep disorder	Diagnosis	ICD-10-CM
F11.988	Opioid use, unspecified with other opioid-induced disorder	Diagnosis	ICD-10-CM
F11.99	Opioid use, unspecified with unspecified opioid-induced disorder	Diagnosis	ICD-10-CM
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
G2068	Medication assisted treatment, buprenorphine (oral); 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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
G2069	Medication assisted treatment, buprenorphine (injectable); 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
G2070	Medication assisted treatment, buprenorphine (implant insertion); 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
G2071	Medication assisted treatment, buprenorphine (implant removal); 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
G2072	Medication assisted treatment, buprenorphine (implant insertion and removal); 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
G2073	Medication assisted treatment, naltrexone; 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
G2079	Take home supply of buprenorphine (oral); 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
HZ81ZZZ	Medication Management for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ84ZZZ	Medication Management for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS
HZ85ZZZ	Medication Management for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ91ZZZ	Pharmacotherapy for Substance Abuse Treatment, Methadone Maintenance	Procedure	ICD-10-PCS
HZ94ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naltrexone	Procedure	ICD-10-PCS
HZ95ZZZ	Pharmacotherapy for Substance Abuse Treatment, Naloxone	Procedure	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
J0571	Buprenorphine, oral, 1 mg	Procedure	HCPCS
J0572	Buprenorphine/naloxone, oral, less than or equal to 3 mg buprenorphine	Procedure	HCPCS
J0573	Buprenorphine/naloxone, oral, greater than 3 mg, but less than or equal to 6 mg buprenorphine	Procedure	HCPCS
J0574	Buprenorphine/naloxone, oral, greater than 6 mg, but less than or equal to 10 mg buprenorphine	Procedure	HCPCS
J0575	Buprenorphine/naloxone, oral, greater than 10 mg buprenorphine	Procedure	HCPCS
J0592	Injection, buprenorphine HCl, 0.1 mg	Procedure	HCPCS
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X1D	Poisoning by opium, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.0X1S	Poisoning by opium, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X2D	Poisoning by opium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.0X2S	Poisoning by opium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.0X3A	Poisoning by opium, assault, initial encounter	Diagnosis	ICD-10-CM
T40.0X3D	Poisoning by opium, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X3S	Poisoning by opium, assault, sequela	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X4D	Poisoning by opium, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X4S	Poisoning by opium, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X5A	Adverse effect of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X5D	Adverse effect of opium, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X5S	Adverse effect of opium, sequela	Diagnosis	ICD-10-CM
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X1D	Poisoning by heroin, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.1X1S	Poisoning by heroin, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X2D	Poisoning by heroin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X2S	Poisoning by heroin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.1X3A	Poisoning by heroin, assault, initial encounter	Diagnosis	ICD-10-CM
T40.1X3D	Poisoning by heroin, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X3S	Poisoning by heroin, assault, sequela	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.1X4D	Poisoning by heroin, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X4S	Poisoning by heroin, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X1D	Poisoning by other opioids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.2X1S	Poisoning by other opioids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X2D	Poisoning by other opioids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X2S	Poisoning by other opioids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.2X3A	Poisoning by other opioids, assault, initial encounter	Diagnosis	ICD-10-CM
T40.2X3D	Poisoning by other opioids, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X3S	Poisoning by other opioids, assault, sequela	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X4D	Poisoning by other opioids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X4S	Poisoning by other opioids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X5A	Adverse effect of other opioids, initial encounter	Diagnosis	ICD-10-CM
T40.2X5D	Adverse effect of other opioids, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X5S	Adverse effect of other opioids, sequela	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X1D	Poisoning by methadone, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.3X1S	Poisoning by methadone, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X2D	Poisoning by methadone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X2S	Poisoning by methadone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.3X3A	Poisoning by methadone, assault, initial encounter	Diagnosis	ICD-10-CM
T40.3X3D	Poisoning by methadone, assault, subsequent encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.3X3S	Poisoning by methadone, assault, sequela	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X4D	Poisoning by methadone, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X4S	Poisoning by methadone, undetermined, sequela	Diagnosis	ICD-10-CM
T40.3X5A	Adverse effect of methadone, initial encounter	Diagnosis	ICD-10-CM
T40.3X5D	Adverse effect of methadone, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X5S	Adverse effect of methadone, sequela	Diagnosis	ICD-10-CM
T40.411A	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.411D	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.411S	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.412D	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.412S	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.413A	Poisoning by fentanyl or fentanyl analogs, assault, initial encounter	Diagnosis	ICD-10-CM
T40.413D	Poisoning by fentanyl or fentanyl analogs, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.413S	Poisoning by fentanyl or fentanyl analogs, assault, sequela	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.414D	Poisoning by fentanyl or fentanyl analogs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.414S	Poisoning by fentanyl or fentanyl analogs, undetermined, sequela	Diagnosis	ICD-10-CM
T40.415A	Adverse effect of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.415D	Adverse effect of fentanyl or fentanyl analogs, subsequent encounter	Diagnosis	ICD-10-CM
T40.415S	Adverse effect of fentanyl or fentanyl analogs, sequela	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.421D	Poisoning by tramadol, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.421S	Poisoning by tramadol, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.422D	Poisoning by tramadol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.422S	Poisoning by tramadol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.423A	Poisoning by tramadol, assault, initial encounter	Diagnosis	ICD-10-CM
T40.423D	Poisoning by tramadol, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.423S	Poisoning by tramadol, assault, sequela	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.424D	Poisoning by tramadol, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.424S	Poisoning by tramadol, undetermined, sequela	Diagnosis	ICD-10-CM
T40.425A	Adverse effect of tramadol, initial encounter	Diagnosis	ICD-10-CM
T40.425D	Adverse effect of tramadol, subsequent encounter	Diagnosis	ICD-10-CM
T40.425S	Adverse effect of tramadol, sequela	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.492D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.492S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.493A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.493D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.493S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.495A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.495D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.495S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X1D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.4X1S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X2D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X2S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.4X3A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.4X3D	Poisoning by other synthetic narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X3S	Poisoning by other synthetic narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.4X4D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X4S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.4X5A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X5D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X5S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.601D	Poisoning by unspecified narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.601S	Poisoning by unspecified narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.602D	Poisoning by unspecified narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.602S	Poisoning by unspecified narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.603A	Poisoning by unspecified narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.603D	Poisoning by unspecified narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.603S	Poisoning by unspecified narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.604D	Poisoning by unspecified narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.604S	Poisoning by unspecified narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.605A	Adverse effect of unspecified narcotics, initial encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.605D	Adverse effect of unspecified narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.605S	Adverse effect of unspecified narcotics, sequela	Diagnosis	ICD-10-CM
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.691D	Poisoning by other narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.691S	Poisoning by other narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.692D	Poisoning by other narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.692S	Poisoning by other narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.693A	Poisoning by other narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.693D	Poisoning by other narcotics, assault, subsequent encounter	Diagnosis	ICD-10-CM
T40.693S	Poisoning by other narcotics, assault, sequela	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.694D	Poisoning by other narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.694S	Poisoning by other narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.695A	Adverse effect of other narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.695D	Adverse effect of other narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.695S	Adverse effect of other narcotics, sequela	Diagnosis	ICD-10-CM
Stimulant-Related Disorders			
F14	Cocaine related disorders	Diagnosis	ICD-10-CM
F14.1	Cocaine abuse	Diagnosis	ICD-10-CM
F14.10	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F14.11	Cocaine abuse, in remission	Diagnosis	ICD-10-CM
F14.12	Cocaine abuse with intoxication	Diagnosis	ICD-10-CM
F14.120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.121	Cocaine abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F14.122	Cocaine abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.129	Cocaine abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.13	Cocaine abuse, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.14	Cocaine abuse with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.15	Cocaine abuse with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.18	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.180	Cocaine abuse with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.181	Cocaine abuse with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.188	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.19	Cocaine abuse with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.2	Cocaine dependence	Diagnosis	ICD-10-CM
F14.20	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F14.21	Cocaine dependence, in remission	Diagnosis	ICD-10-CM
F14.22	Cocaine dependence with intoxication	Diagnosis	ICD-10-CM
F14.220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F14.222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.23	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F14.24	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.25	Cocaine dependence with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.28	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.29	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.9	Cocaine use, unspecified	Diagnosis	ICD-10-CM
F14.90	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F14.91	Cocaine use, unspecified, in remission	Diagnosis	ICD-10-CM
F14.92	Cocaine use, unspecified with intoxication	Diagnosis	ICD-10-CM
F14.920	Cocaine use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.921	Cocaine use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F14.922	Cocaine use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.929	Cocaine use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.93	Cocaine use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.94	Cocaine use, unspecified with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.95	Cocaine use, unspecified with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.950	Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.951	Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.959	Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.98	Cocaine use, unspecified with other specified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.980	Cocaine use, unspecified with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.981	Cocaine use, unspecified with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.988	Cocaine use, unspecified with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.99	Cocaine use, unspecified with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F15.10	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F15.120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.121	Other stimulant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F15.122	Other stimulant abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.129	Other stimulant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.13	Other stimulant abuse with withdrawal	Diagnosis	ICD-10-CM
F15.14	Other stimulant abuse with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.150	Other stimulant abuse with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.151	Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F15.159	Other stimulant abuse with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.180	Other stimulant abuse with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.181	Other stimulant abuse with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.188	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.19	Other stimulant abuse with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.20	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F15.94	Other stimulant use, unspecified with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.950	Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.951	Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.959	Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.980	Other stimulant use, unspecified with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.981	Other stimulant use, unspecified with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.988	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.99	Other stimulant use, unspecified with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
Cocaine-Related Disorders			
F14	Cocaine related disorders	Diagnosis	ICD-10-CM
F14.1	Cocaine abuse	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F14.10	Cocaine abuse, uncomplicated	Diagnosis	ICD-10-CM
F14.11	Cocaine abuse, in remission	Diagnosis	ICD-10-CM
F14.12	Cocaine abuse with intoxication	Diagnosis	ICD-10-CM
F14.120	Cocaine abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.121	Cocaine abuse with intoxication with delirium	Diagnosis	ICD-10-CM
F14.122	Cocaine abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.129	Cocaine abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.13	Cocaine abuse, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.14	Cocaine abuse with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.15	Cocaine abuse with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.18	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.180	Cocaine abuse with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.181	Cocaine abuse with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.182	Cocaine abuse with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.188	Cocaine abuse with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.19	Cocaine abuse with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.2	Cocaine dependence	Diagnosis	ICD-10-CM
F14.20	Cocaine dependence, uncomplicated	Diagnosis	ICD-10-CM
F14.21	Cocaine dependence, in remission	Diagnosis	ICD-10-CM
F14.22	Cocaine dependence with intoxication	Diagnosis	ICD-10-CM
F14.220	Cocaine dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.221	Cocaine dependence with intoxication delirium	Diagnosis	ICD-10-CM
F14.222	Cocaine dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.229	Cocaine dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.23	Cocaine dependence with withdrawal	Diagnosis	ICD-10-CM
F14.24	Cocaine dependence with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.25	Cocaine dependence with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.250	Cocaine dependence with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.251	Cocaine dependence with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.259	Cocaine dependence with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.28	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.280	Cocaine dependence with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.281	Cocaine dependence with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.282	Cocaine dependence with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.288	Cocaine dependence with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.29	Cocaine dependence with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.9	Cocaine use, unspecified	Diagnosis	ICD-10-CM
F14.90	Cocaine use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F14.91	Cocaine use, unspecified, in remission	Diagnosis	ICD-10-CM
F14.92	Cocaine use, unspecified with intoxication	Diagnosis	ICD-10-CM
F14.920	Cocaine use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F14.921	Cocaine use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F14.922	Cocaine use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F14.929	Cocaine use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F14.93	Cocaine use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F14.94	Cocaine use, unspecified with cocaine-induced mood disorder	Diagnosis	ICD-10-CM
F14.95	Cocaine use, unspecified with cocaine-induced psychotic disorder	Diagnosis	ICD-10-CM
F14.950	Cocaine use, unspecified with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.951	Cocaine use, unspecified with cocaine-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F14.959	Cocaine use, unspecified with cocaine-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F14.98	Cocaine use, unspecified with other specified cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.980	Cocaine use, unspecified with cocaine-induced anxiety disorder	Diagnosis	ICD-10-CM
F14.981	Cocaine use, unspecified with cocaine-induced sexual dysfunction	Diagnosis	ICD-10-CM
F14.982	Cocaine use, unspecified with cocaine-induced sleep disorder	Diagnosis	ICD-10-CM
F14.988	Cocaine use, unspecified with other cocaine-induced disorder	Diagnosis	ICD-10-CM
F14.99	Cocaine use, unspecified with unspecified cocaine-induced disorder	Diagnosis	ICD-10-CM
Other Stimulant-Related Disorders			
F15.10	Other stimulant abuse, uncomplicated	Diagnosis	ICD-10-CM
F15.120	Other stimulant abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.121	Other stimulant abuse with intoxication delirium	Diagnosis	ICD-10-CM
F15.122	Other stimulant abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.129	Other stimulant abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.13	Other stimulant abuse with withdrawal	Diagnosis	ICD-10-CM
F15.14	Other stimulant abuse with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.150	Other stimulant abuse with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.151	Other stimulant abuse with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.159	Other stimulant abuse with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.180	Other stimulant abuse with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.181	Other stimulant abuse with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.182	Other stimulant abuse with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.188	Other stimulant abuse with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.19	Other stimulant abuse with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.20	Other stimulant dependence, uncomplicated	Diagnosis	ICD-10-CM
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F15.94	Other stimulant use, unspecified with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.950	Other stimulant use, unspecified with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.951	Other stimulant use, unspecified with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.959	Other stimulant use, unspecified with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.980	Other stimulant use, unspecified with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.981	Other stimulant use, unspecified with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.982	Other stimulant use, unspecified with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.988	Other stimulant use, unspecified with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.99	Other stimulant use, unspecified with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
Alcohol-Related Disorders			
F10	Alcohol related disorders	Diagnosis	ICD-10-CM
F10.1	Alcohol abuse	Diagnosis	ICD-10-CM
F10.10	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F10.11	Alcohol abuse, in remission	Diagnosis	ICD-10-CM
F10.12	Alcohol abuse with intoxication	Diagnosis	ICD-10-CM
F10.120	Alcohol abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.121	Alcohol abuse with intoxication delirium	Diagnosis	ICD-10-CM
F10.129	Alcohol abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.13	Alcohol abuse, with withdrawal	Diagnosis	ICD-10-CM
F10.130	Alcohol abuse with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.131	Alcohol abuse with withdrawal delirium	Diagnosis	ICD-10-CM
F10.132	Alcohol abuse with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.139	Alcohol abuse with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.14	Alcohol abuse with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.15	Alcohol abuse with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.151	Alcohol abuse with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.159	Alcohol abuse with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.18	Alcohol abuse with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.180	Alcohol abuse with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.181	Alcohol abuse with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F10.182	Alcohol abuse with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.188	Alcohol abuse with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.19	Alcohol abuse with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.2	Alcohol dependence	Diagnosis	ICD-10-CM
F10.20	Alcohol dependence, uncomplicated	Diagnosis	ICD-10-CM
F10.21	Alcohol dependence, in remission	Diagnosis	ICD-10-CM
F10.22	Alcohol dependence with intoxication	Diagnosis	ICD-10-CM
F10.220	Alcohol dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.221	Alcohol dependence with intoxication delirium	Diagnosis	ICD-10-CM
F10.229	Alcohol dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.23	Alcohol dependence with withdrawal	Diagnosis	ICD-10-CM
F10.230	Alcohol dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.231	Alcohol dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F10.232	Alcohol dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.239	Alcohol dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.24	Alcohol dependence with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.25	Alcohol dependence with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.250	Alcohol dependence with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.251	Alcohol dependence with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F10.259	Alcohol dependence with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.26	Alcohol dependence with alcohol-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F10.27	Alcohol dependence with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.28	Alcohol dependence with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.280	Alcohol dependence with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.281	Alcohol dependence with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.282	Alcohol dependence with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.288	Alcohol dependence with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.29	Alcohol dependence with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.9	Alcohol use, unspecified	Diagnosis	ICD-10-CM
F10.90	Alcohol use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F10.91	Alcohol use, unspecified, in remission	Diagnosis	ICD-10-CM
F10.92	Alcohol use, unspecified with intoxication	Diagnosis	ICD-10-CM
F10.920	Alcohol use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F10.921	Alcohol use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F10.929	Alcohol use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F10.93	Alcohol use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F10.930	Alcohol use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F10.931	Alcohol use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F10.932	Alcohol use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F10.939	Alcohol use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F10.94	Alcohol use, unspecified with alcohol-induced mood disorder	Diagnosis	ICD-10-CM
F10.95	Alcohol use, unspecified with alcohol-induced psychotic disorder	Diagnosis	ICD-10-CM
F10.950	Alcohol use, unspecified with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F10.951	Alcohol use, unspecified with alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F10.959	Alcohol use, unspecified with alcohol-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F10.96	Alcohol use, unspecified with alcohol-induced persisting amnestic disorder	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.98	Alcohol use, unspecified with other alcohol-induced disorders	Diagnosis	ICD-10-CM
F10.980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
Cannabis-Related Disorders			
F12	Cannabis related disorders	Diagnosis	ICD-10-CM
F12.1	Cannabis abuse	Diagnosis	ICD-10-CM
F12.10	Cannabis abuse, uncomplicated	Diagnosis	ICD-10-CM
F12.11	Cannabis abuse, in remission	Diagnosis	ICD-10-CM
F12.12	Cannabis abuse with intoxication	Diagnosis	ICD-10-CM
F12.120	Cannabis abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.121	Cannabis abuse with intoxication delirium	Diagnosis	ICD-10-CM
F12.122	Cannabis abuse with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.129	Cannabis abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.13	Cannabis abuse with withdrawal	Diagnosis	ICD-10-CM
F12.15	Cannabis abuse with psychotic disorder	Diagnosis	ICD-10-CM
F12.150	Cannabis abuse with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.151	Cannabis abuse with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.159	Cannabis abuse with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.18	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.180	Cannabis abuse with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.188	Cannabis abuse with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.19	Cannabis abuse with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.2	Cannabis dependence	Diagnosis	ICD-10-CM
F12.20	Cannabis dependence, uncomplicated	Diagnosis	ICD-10-CM
F12.21	Cannabis dependence, in remission	Diagnosis	ICD-10-CM
F12.22	Cannabis dependence with intoxication	Diagnosis	ICD-10-CM
F12.220	Cannabis dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.221	Cannabis dependence with intoxication delirium	Diagnosis	ICD-10-CM
F12.222	Cannabis dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.229	Cannabis dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.23	Cannabis dependence with withdrawal	Diagnosis	ICD-10-CM
F12.25	Cannabis dependence with psychotic disorder	Diagnosis	ICD-10-CM
F12.250	Cannabis dependence with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.251	Cannabis dependence with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.259	Cannabis dependence with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.28	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.280	Cannabis dependence with cannabis-induced anxiety disorder	Diagnosis	ICD-10-CM
F12.288	Cannabis dependence with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.29	Cannabis dependence with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F12.9	Cannabis use, unspecified	Diagnosis	ICD-10-CM
F12.90	Cannabis use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F12.91	Cannabis use, unspecified, in remission	Diagnosis	ICD-10-CM
F12.92	Cannabis use, unspecified with intoxication	Diagnosis	ICD-10-CM
F12.920	Cannabis use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F12.921	Cannabis use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F12.922	Cannabis use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F12.929	Cannabis use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F12.93	Cannabis use, unspecified with withdrawal	Diagnosis	ICD-10-CM
F12.95	Cannabis use, unspecified with psychotic disorder	Diagnosis	ICD-10-CM
F12.950	Cannabis use, unspecified with psychotic disorder with delusions	Diagnosis	ICD-10-CM
F12.951	Cannabis use, unspecified with psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F12.959	Cannabis use, unspecified with psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F12.98	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.980	Cannabis use, unspecified with anxiety disorder	Diagnosis	ICD-10-CM
F12.988	Cannabis use, unspecified with other cannabis-induced disorder	Diagnosis	ICD-10-CM
F12.99	Cannabis use, unspecified with unspecified cannabis-induced disorder	Diagnosis	ICD-10-CM
Tobacco-Related Disorders			
F17	Nicotine dependence	Diagnosis	ICD-10-CM
F17.2	Nicotine dependence	Diagnosis	ICD-10-CM
F17.20	Nicotine dependence, unspecified	Diagnosis	ICD-10-CM
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM
F17.203	Nicotine dependence unspecified, with withdrawal	Diagnosis	ICD-10-CM
F17.208	Nicotine dependence, unspecified, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.209	Nicotine dependence, unspecified, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.21	Nicotine dependence, cigarettes	Diagnosis	ICD-10-CM
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.213	Nicotine dependence, cigarettes, with withdrawal	Diagnosis	ICD-10-CM
F17.218	Nicotine dependence, cigarettes, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.219	Nicotine dependence, cigarettes, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.22	Nicotine dependence, chewing tobacco	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.223	Nicotine dependence, chewing tobacco, with withdrawal	Diagnosis	ICD-10-CM
F17.228	Nicotine dependence, chewing tobacco, with other nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
F17.29	Nicotine dependence, other tobacco product	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
F17.293	Nicotine dependence, other tobacco product, with withdrawal	Diagnosis	ICD-10-CM
F17.298	Nicotine dependence, other tobacco product, with other nicotine-induced disorders	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
F17.299	Nicotine dependence, other tobacco product, with unspecified nicotine-induced disorders	Diagnosis	ICD-10-CM
S4990	Nicotine patches, legend	Procedure	HCPCS
S4991	Nicotine patches, non-legend	Procedure	HCPCS
U07.0	Vaping related disorder	Diagnosis	ICD-10-CM
Z87891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
Nicotine Use Excluding Tobacco-Related Disorders			
G8455	Current tobacco smoker	Procedure	HCPCS
G8456	Current smokeless tobacco user	Procedure	HCPCS
G8686	Currently a tobacco smoker or current exposure to secondhand smoke	Procedure	HCPCS
G8688	Currently a smokeless tobacco user (eg, chew, snuff) and no exposure to secondhand smoke	Procedure	HCPCS
G8690	Current tobacco smoker or current exposure to secondhand smoke	Procedure	HCPCS
G8692	Current smokeless tobacco user (eg, chew, snuff) and no exposure to secondhand smoke	Procedure	HCPCS
G9276	Documentation that patient is a current tobacco user	Procedure	HCPCS
G9458	Patient documented as tobacco user and received tobacco cessation intervention (must include at least one of the following: advice given to quit smoking or tobacco use, counseling on the benefits of q	Procedure	HCPCS
G9645	Patients who did not abstain from smoking prior to anesthesia on the day of surgery or procedure	Procedure	HCPCS
G9792	Most recent tobacco status is not tobacco free	Procedure	HCPCS
G9902	Patient screened for tobacco use and identified as a tobacco user	Procedure	HCPCS
Z720	Tobacco use	Diagnosis	ICD-10-CM
Unintentional or Undetermined Poisoning by Broad Category			
T42.4X1	Poisoning by benzodiazepines, accidental (unintentional)	Diagnosis	ICD-10-CM
T42.4X1A	Poisoning by benzodiazepines, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T42.4X1S	Poisoning by benzodiazepines, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T42.4X1D	Poisoning by benzodiazepines, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T42.4X4	Poisoning by benzodiazepines, undetermined	Diagnosis	ICD-10-CM
T42.4X4A	Poisoning by benzodiazepines, undetermined, initial encounter	Diagnosis	ICD-10-CM
T42.4X4S	Poisoning by benzodiazepines, undetermined, sequela	Diagnosis	ICD-10-CM
T42.4X4D	Poisoning by benzodiazepines, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X1	Poisoning by cannabis (derivatives), accidental (unintentional)	Diagnosis	ICD-10-CM
T40.7X1A	Poisoning by cannabis (derivatives), accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.7X1S	Poisoning by cannabis (derivatives), accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.7X1D	Poisoning by cannabis (derivatives), accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.7X4	Poisoning by cannabis (derivatives), undetermined	Diagnosis	ICD-10-CM
T40.7X4A	Poisoning by cannabis (derivatives), undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.7X4S	Poisoning by cannabis (derivatives), undetermined, sequela	Diagnosis	ICD-10-CM
T40.7X4D	Poisoning by cannabis (derivatives), undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.714	Poisoning by cannabis, undetermined	Diagnosis	ICD-10-CM
T40.714A	Poisoning by cannabis, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.714S	Poisoning by cannabis, undetermined, sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.714D	Poisoning by cannabis, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.721	Poisoning by synthetic cannabinoids, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.721A	Poisoning by synthetic cannabinoids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.721S	Poisoning by synthetic cannabinoids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.721D	Poisoning by synthetic cannabinoids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.724	Poisoning by synthetic cannabinoids, undetermined	Diagnosis	ICD-10-CM
T40.724A	Poisoning by synthetic cannabinoids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.724S	Poisoning by synthetic cannabinoids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.724D	Poisoning by synthetic cannabinoids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.8X1A	Poisoning by lysergide [LSD], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.8X4A	Poisoning by lysergide [LSD], undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.901A	Poisoning by unspecified psychodysleptics [hallucinogens], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.991A	Poisoning by other psychodysleptics [hallucinogens], accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.994A	Poisoning by other psychodysleptics [hallucinogens], undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.904A	Poisoning by unspecified psychodysleptics [hallucinogens], undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.5X1	Poisoning by cocaine, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.5X1A	Poisoning by cocaine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.5X1D	Poisoning by cocaine, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.5X1S	Poisoning by cocaine, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.601	Poisoning by unspecified psychostimulants, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.601A	Poisoning by unspecified psychostimulants, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.601D	Poisoning by unspecified psychostimulants, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.601S	Poisoning by unspecified psychostimulants, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.621	Poisoning by amphetamines, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.621A	Poisoning by amphetamines, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.621D	Poisoning by amphetamines, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.621S	Poisoning by amphetamines, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.631	Poisoning by methylphenidate, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.631A	Poisoning by methylphenidate, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.631D	Poisoning by methylphenidate, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.631S	Poisoning by methylphenidate, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.641	Poisoning by ecstasy, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.641A	Poisoning by ecstasy, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.641D	Poisoning by ecstasy, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.641S	Poisoning by ecstasy, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.651	Poisoning by methamphetamines accidental (unintentional)	Diagnosis	ICD-10-CM
T43.651A	Poisoning by methamphetamines accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T43.651D	Poisoning by methamphetamines accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.651S	Poisoning by methamphetamines accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.691	Poisoning by other psychostimulants, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.691A	Poisoning by other psychostimulants, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.691D	Poisoning by other psychostimulants, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.691S	Poisoning by other psychostimulants, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.5X4	Poisoning by cocaine, undetermined	Diagnosis	ICD-10-CM
T40.5X4A	Poisoning by cocaine, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.5X4D	Poisoning by cocaine, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X4S	Poisoning by cocaine, undetermined, sequela	Diagnosis	ICD-10-CM
T43.604	Poisoning by unspecified psychostimulants, undetermined	Diagnosis	ICD-10-CM
T43.604A	Poisoning by unspecified psychostimulants, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.604D	Poisoning by unspecified psychostimulants, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.604S	Poisoning by unspecified psychostimulants, undetermined, sequela	Diagnosis	ICD-10-CM
T43.624	Poisoning by amphetamines, undetermined	Diagnosis	ICD-10-CM
T43.624A	Poisoning by amphetamines, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.624D	Poisoning by amphetamines, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.624S	Poisoning by amphetamines, undetermined, sequela	Diagnosis	ICD-10-CM
T43.634	Poisoning by methylphenidate, undetermined	Diagnosis	ICD-10-CM
T43.634A	Poisoning by methylphenidate, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.634D	Poisoning by methylphenidate, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.634S	Poisoning by methylphenidate, undetermined, sequela	Diagnosis	ICD-10-CM
T43.644	Poisoning by ecstasy, undetermined	Diagnosis	ICD-10-CM
T43.644A	Poisoning by ecstasy, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.644D	Poisoning by ecstasy, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.644S	Poisoning by ecstasy, undetermined, sequela	Diagnosis	ICD-10-CM
T43.654	Poisoning by methamphetamines, undetermined	Diagnosis	ICD-10-CM
T43.654A	Poisoning by methamphetamines, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.654D	Poisoning by methamphetamines, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.654S	Poisoning by methamphetamines, undetermined, sequela	Diagnosis	ICD-10-CM
T43.694	Poisoning by other psychostimulants, undetermined	Diagnosis	ICD-10-CM
T43.694A	Poisoning by other psychostimulants, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.694D	Poisoning by other psychostimulants, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.694S	Poisoning by other psychostimulants, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X1	Poisoning by opium, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X1D	Poisoning by opium, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.0X1S	Poisoning by opium, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.1X1	Poisoning by heroin, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X1D	Poisoning by heroin, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.1X1S	Poisoning by heroin, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.2X1	Poisoning by other opioids, accidental (unintentional)	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X1D	Poisoning by other opioids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.2X1S	Poisoning by other opioids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.3X1	Poisoning by methadone, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X1D	Poisoning by methadone, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.3X1S	Poisoning by methadone, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.411	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.411A	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.411D	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.411S	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.421	Poisoning by tramadol, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.421D	Poisoning by tramadol, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.421S	Poisoning by tramadol, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.491	Poisoning by other synthetic narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.4X1	Poisoning by other synthetic narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X1D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.4X1S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.601	Poisoning by unspecified narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.601D	Poisoning by unspecified narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.601S	Poisoning by unspecified narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.691	Poisoning by other narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.691D	Poisoning by other narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.691S	Poisoning by other narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.694	Poisoning by other narcotics, undetermined	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.694D	Poisoning by other narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.694S	Poisoning by other narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.604	Poisoning by unspecified narcotics, undetermined	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.604D	Poisoning by unspecified narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.604S	Poisoning by unspecified narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.4X4	Poisoning by other synthetic narcotics, undetermined	Diagnosis	ICD-10-CM
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.4X4D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X4S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.494	Poisoning by other synthetic narcotics, undetermined	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.424	Poisoning by tramadol, undetermined	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.424D	Poisoning by tramadol, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.424S	Poisoning by tramadol, undetermined, sequela	Diagnosis	ICD-10-CM
T40.414	Poisoning by fentanyl or fentanyl analogs, undetermined	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.414D	Poisoning by fentanyl or fentanyl analogs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.414S	Poisoning by fentanyl or fentanyl analogs, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X4	Poisoning by opium, undetermined	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X4D	Poisoning by opium, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X4S	Poisoning by opium, undetermined, sequela	Diagnosis	ICD-10-CM
T40.3X4	Poisoning by methadone, undetermined	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X4D	Poisoning by methadone, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X4S	Poisoning by methadone, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X4	Poisoning by other opioids, undetermined	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X4D	Poisoning by other opioids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X4S	Poisoning by other opioids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.1X4	Poisoning by heroin, undetermined	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.1X4D	Poisoning by heroin, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X4S	Poisoning by heroin, undetermined, sequela	Diagnosis	ICD-10-CM
Opioid Poisoning or Unintentional or Undetermined Intent			
T40.0X1	Poisoning by opium, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X1D	Poisoning by opium, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.0X1S	Poisoning by opium, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.1X1	Poisoning by heroin, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X1D	Poisoning by heroin, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.1X1S	Poisoning by heroin, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.2X1	Poisoning by other opioids, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X1D	Poisoning by other opioids, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.2X1S	Poisoning by other opioids, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.3X1	Poisoning by methadone, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X1D	Poisoning by methadone, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.3X1S	Poisoning by methadone, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.411	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.411A	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.411D	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.411S	Poisoning by fentanyl or fentanyl analogs, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.421	Poisoning by tramadol, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.421D	Poisoning by tramadol, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.421S	Poisoning by tramadol, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.491	Poisoning by other synthetic narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.4X1	Poisoning by other synthetic narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X1D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.4X1S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.601	Poisoning by unspecified narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.601D	Poisoning by unspecified narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.601S	Poisoning by unspecified narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.691	Poisoning by other narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.691D	Poisoning by other narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.691S	Poisoning by other narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.694	Poisoning by other narcotics, undetermined	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.694D	Poisoning by other narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.694S	Poisoning by other narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.604	Poisoning by unspecified narcotics, undetermined	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.604D	Poisoning by unspecified narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.604S	Poisoning by unspecified narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.4X4	Poisoning by other synthetic narcotics, undetermined	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.4X4D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X4S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.494	Poisoning by other synthetic narcotics, undetermined	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
T40.424	Poisoning by tramadol, undetermined	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.424D	Poisoning by tramadol, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.424S	Poisoning by tramadol, undetermined, sequela	Diagnosis	ICD-10-CM
T40.414	Poisoning by fentanyl or fentanyl analogs, undetermined	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.414D	Poisoning by fentanyl or fentanyl analogs, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.414S	Poisoning by fentanyl or fentanyl analogs, undetermined, sequela	Diagnosis	ICD-10-CM
T40.0X4	Poisoning by opium, undetermined	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X4D	Poisoning by opium, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X4S	Poisoning by opium, undetermined, sequela	Diagnosis	ICD-10-CM
T40.3X4	Poisoning by methadone, undetermined	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X4D	Poisoning by methadone, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X4S	Poisoning by methadone, undetermined, sequela	Diagnosis	ICD-10-CM
T40.2X4	Poisoning by other opioids, undetermined	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X4D	Poisoning by other opioids, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X4S	Poisoning by other opioids, undetermined, sequela	Diagnosis	ICD-10-CM
T40.1X4	Poisoning by heroin, undetermined	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.1X4D	Poisoning by heroin, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X4S	Poisoning by heroin, undetermined, sequela	Diagnosis	ICD-10-CM
Stimulant Poisoning or Unintentional or Undetermined Intent			
T40.5X1	Poisoning by cocaine, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.5X1A	Poisoning by cocaine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.5X1D	Poisoning by cocaine, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.5X1S	Poisoning by cocaine, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.5X4	Poisoning by cocaine, undetermined	Diagnosis	ICD-10-CM
T40.5X4A	Poisoning by cocaine, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.5X4D	Poisoning by cocaine, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X4S	Poisoning by cocaine, undetermined, sequela	Diagnosis	ICD-10-CM
T43.601	Poisoning by unspecified psychostimulants, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.601A	Poisoning by unspecified psychostimulants, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.601D	Poisoning by unspecified psychostimulants, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T43.601S	Poisoning by unspecified psychostimulants, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.604	Poisoning by unspecified psychostimulants, undetermined	Diagnosis	ICD-10-CM
T43.604A	Poisoning by unspecified psychostimulants, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.604D	Poisoning by unspecified psychostimulants, undetermined, subsequent	Diagnosis	ICD-10-CM
T43.604S	Poisoning by unspecified psychostimulants, undetermined, sequela	Diagnosis	ICD-10-CM
T43.621	Poisoning by amphetamines, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.621A	Poisoning by amphetamines, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.621D	Poisoning by amphetamines, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.621S	Poisoning by amphetamines, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.624	Poisoning by amphetamines, undetermined	Diagnosis	ICD-10-CM
T43.624A	Poisoning by amphetamines, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.624D	Poisoning by amphetamines, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.624S	Poisoning by amphetamines, undetermined, sequela	Diagnosis	ICD-10-CM
T43.631	Poisoning by methylphenidate, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.631A	Poisoning by methylphenidate, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.631D	Poisoning by methylphenidate, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.631S	Poisoning by methylphenidate, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.634	Poisoning by methylphenidate, undetermined	Diagnosis	ICD-10-CM
T43.634A	Poisoning by methylphenidate, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.634D	Poisoning by methylphenidate, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.634S	Poisoning by methylphenidate, undetermined, sequela	Diagnosis	ICD-10-CM
T43.641	Poisoning by ecstasy, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.641A	Poisoning by ecstasy, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.641D	Poisoning by ecstasy, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.641S	Poisoning by ecstasy, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.644	Poisoning by ecstasy, undetermined	Diagnosis	ICD-10-CM
T43.644A	Poisoning by ecstasy, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.644D	Poisoning by ecstasy, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.644S	Poisoning by ecstasy, undetermined, sequela	Diagnosis	ICD-10-CM
T43.651	Poisoning by methamphetamines accidental (unintentional)	Diagnosis	ICD-10-CM
T43.651A	Poisoning by methamphetamines accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T43.651D	Poisoning by methamphetamines accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.651S	Poisoning by methamphetamines accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.654	Poisoning by methamphetamines, undetermined	Diagnosis	ICD-10-CM
T43.654A	Poisoning by methamphetamines, undetermined, initial encounter	Diagnosis	ICD-10-CM
T43.654D	Poisoning by methamphetamines, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.654S	Poisoning by methamphetamines, undetermined, sequela	Diagnosis	ICD-10-CM
T43.691	Poisoning by other psychostimulants, accidental (unintentional)	Diagnosis	ICD-10-CM
T43.691A	Poisoning by other psychostimulants, accidental (unintentional), initial	Diagnosis	ICD-10-CM
T43.691D	Poisoning by other psychostimulants, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T43.691S	Poisoning by other psychostimulants, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T43.694	Poisoning by other psychostimulants, undetermined	Diagnosis	ICD-10-CM
T43.694A	Poisoning by other psychostimulants, undetermined, initial encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T43.694D	Poisoning by other psychostimulants, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T43.694S	Poisoning by other psychostimulants, undetermined, sequela	Diagnosis	ICD-10-CM
Intentional Poisoning by Broad Category			
T42.4X5	Adverse effect of benzodiazepines	Diagnosis	ICD-10-CM
T42.4X5A	Adverse effect of benzodiazepines, initial encounter	Diagnosis	ICD-10-CM
T42.4X5S	Adverse effect of benzodiazepines, sequela	Diagnosis	ICD-10-CM
T42.4X5D	Adverse effect of benzodiazepines, subsequent encounter	Diagnosis	ICD-10-CM
T42.4X3A	Poisoning by benzodiazepines, assault, initial encounter	Diagnosis	ICD-10-CM
T42.4X3S	Poisoning by benzodiazepines, assault, sequela	Diagnosis	ICD-10-CM
T42.4X3D	Poisoning by benzodiazepines, assault, subsequent encounter	Diagnosis	ICD-10-CM
T42.4X2	Poisoning by benzodiazepines, intentional self-harm	Diagnosis	ICD-10-CM
T42.4X2A	Poisoning by benzodiazepines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T42.4X2S	Poisoning by benzodiazepines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T42.4X2D	Poisoning by benzodiazepines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T42.4	Poisoning by, adverse effect of and underdosing of benzodiazepines	Diagnosis	ICD-10-CM
T42.4X	Poisoning by, adverse effect of and underdosing of benzodiazepines	Diagnosis	ICD-10-CM
T42.4X6	Underdosing of benzodiazepines	Diagnosis	ICD-10-CM
T42.4X6A	Underdosing of benzodiazepines, initial encounter	Diagnosis	ICD-10-CM
T42.4X6S	Underdosing of benzodiazepines, sequela	Diagnosis	ICD-10-CM
T42.4X6D	Underdosing of benzodiazepines, subsequent encounter	Diagnosis	ICD-10-CM
T40.715	Adverse effect of cannabis	Diagnosis	ICD-10-CM
T40.7X5	Adverse effect of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.7X5A	Adverse effect of cannabis (derivatives), initial encounter	Diagnosis	ICD-10-CM
T40.7X5S	Adverse effect of cannabis (derivatives), sequela	Diagnosis	ICD-10-CM
T40.7X5D	Adverse effect of cannabis (derivatives), subsequent encounter	Diagnosis	ICD-10-CM
T40.715A	Adverse effect of cannabis, initial encounter	Diagnosis	ICD-10-CM
T40.715S	Adverse effect of cannabis, sequela	Diagnosis	ICD-10-CM
T40.715D	Adverse effect of cannabis, subsequent encounter	Diagnosis	ICD-10-CM
T40.725	Adverse effect of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.725A	Adverse effect of synthetic cannabinoids, initial encounter	Diagnosis	ICD-10-CM
T40.725S	Adverse effect of synthetic cannabinoids, sequela	Diagnosis	ICD-10-CM
T40.725D	Adverse effect of synthetic cannabinoids, subsequent encounter	Diagnosis	ICD-10-CM
T40.7X2	Poisoning by cannabis (derivatives), intentional self-harm	Diagnosis	ICD-10-CM
T40.7X2A	Poisoning by cannabis (derivatives), intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.7X2S	Poisoning by cannabis (derivatives), intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.7X2D	Poisoning by cannabis (derivatives), intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.712	Poisoning by cannabis, intentional self-harm	Diagnosis	ICD-10-CM
T40.712A	Poisoning by cannabis, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.712S	Poisoning by cannabis, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.712D	Poisoning by cannabis, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.7	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.71	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.7X	Poisoning by, adverse effect of and underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM
T40.716	Underdosing of cannabis	Diagnosis	ICD-10-CM
T40.7X6	Underdosing of cannabis (derivatives)	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.7X6A	Underdosing of cannabis (derivatives), initial encounter	Diagnosis	ICD-10-CM
T40.7X6S	Underdosing of cannabis (derivatives), sequela	Diagnosis	ICD-10-CM
T40.7X6D	Underdosing of cannabis (derivatives), subsequent encounter	Diagnosis	ICD-10-CM
T40.716A	Underdosing of cannabis, initial encounter	Diagnosis	ICD-10-CM
T40.716S	Underdosing of cannabis, sequela	Diagnosis	ICD-10-CM
T40.716D	Underdosing of cannabis, subsequent encounter	Diagnosis	ICD-10-CM
T40.722	Poisoning by synthetic cannabinoids, intentional self-harm	Diagnosis	ICD-10-CM
T40.722A	Poisoning by synthetic cannabinoids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.722S	Poisoning by synthetic cannabinoids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.722D	Poisoning by synthetic cannabinoids, intentional self-harm, subsequent	Diagnosis	ICD-10-CM
T40.72	Poisoning by, adverse effect of and underdosing of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.726	Underdosing of synthetic cannabinoids	Diagnosis	ICD-10-CM
T40.726A	Underdosing of synthetic cannabinoids, initial encounter	Diagnosis	ICD-10-CM
T40.726S	Underdosing of synthetic cannabinoids, sequela	Diagnosis	ICD-10-CM
T40.726D	Underdosing of synthetic cannabinoids, subsequent encounter	Diagnosis	ICD-10-CM
T40.8X2A	Poisoning by lysergide [LSD], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.902A	Poisoning by unspecified psychodysleptics [hallucinogens], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.992A	Poisoning by other psychodysleptics [hallucinogens], intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.5X	Poisoning by, adverse effect of and underdosing of cocaine	Diagnosis	ICD-10-CM
T40.5X2	Poisoning by cocaine, intentional self-harm	Diagnosis	ICD-10-CM
T40.5X2A	Poisoning by cocaine, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.5X2D	Poisoning by cocaine, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X2S	Poisoning by cocaine, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.5X5	Adverse effect of cocaine	Diagnosis	ICD-10-CM
T40.5X5A	Adverse effect of cocaine, initial encounter	Diagnosis	ICD-10-CM
T40.5X5D	Adverse effect of cocaine, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X5S	Adverse effect of cocaine, sequela	Diagnosis	ICD-10-CM
T40.5X6	Underdosing of cocaine	Diagnosis	ICD-10-CM
T40.5X6A	Underdosing of cocaine, initial encounter	Diagnosis	ICD-10-CM
T40.5X6D	Underdosing of cocaine, subsequent encounter	Diagnosis	ICD-10-CM
T40.5X6S	Underdosing of cocaine, sequela	Diagnosis	ICD-10-CM
T43.60	Poisoning by, adverse effect of and underdosing of unspecified psychostimulant	Diagnosis	ICD-10-CM
T43.602	Poisoning by unspecified psychostimulants, intentional self-harm	Diagnosis	ICD-10-CM
T43.602A	Poisoning by unspecified psychostimulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.602D	Poisoning by unspecified psychostimulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.602S	Poisoning by unspecified psychostimulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.605	Adverse effect of unspecified psychostimulants	Diagnosis	ICD-10-CM
T43.605A	Adverse effect of unspecified psychostimulants, initial encounter	Diagnosis	ICD-10-CM
T43.605D	Adverse effect of unspecified psychostimulants, subsequent encounter	Diagnosis	ICD-10-CM
T43.605S	Adverse effect of unspecified psychostimulants, sequela	Diagnosis	ICD-10-CM
T43.606	Underdosing of unspecified psychostimulants	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T43.606A	Underdosing of unspecified psychostimulants, initial encounter	Diagnosis	ICD-10-CM
T43.606D	Underdosing of unspecified psychostimulants, subsequent encounter	Diagnosis	ICD-10-CM
T43.606S	Underdosing of unspecified psychostimulants, sequela	Diagnosis	ICD-10-CM
T43.62	Poisoning by, adverse effect of and underdosing of amphetamines	Diagnosis	ICD-10-CM
T43.622	Poisoning by amphetamines, intentional self-harm	Diagnosis	ICD-10-CM
T43.622A	Poisoning by amphetamines, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.622D	Poisoning by amphetamines, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.622S	Poisoning by amphetamines, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.625	Adverse effect of amphetamines	Diagnosis	ICD-10-CM
T43.625A	Adverse effect of amphetamines, initial encounter	Diagnosis	ICD-10-CM
T43.625D	Adverse effect of amphetamines, subsequent encounter	Diagnosis	ICD-10-CM
T43.625S	Adverse effect of amphetamines, sequela	Diagnosis	ICD-10-CM
T43.626	Underdosing of amphetamines	Diagnosis	ICD-10-CM
T43.626A	Underdosing of amphetamines, initial encounter	Diagnosis	ICD-10-CM
T43.626D	Underdosing of amphetamines, subsequent encounter	Diagnosis	ICD-10-CM
T43.626S	Underdosing of amphetamines, sequela	Diagnosis	ICD-10-CM
T43.63	Poisoning by, adverse effect of and underdosing of methylphenidate	Diagnosis	ICD-10-CM
T43.632	Poisoning by methylphenidate, intentional self-harm	Diagnosis	ICD-10-CM
T43.632A	Poisoning by methylphenidate, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.632D	Poisoning by methylphenidate, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.632S	Poisoning by methylphenidate, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.635	Adverse effect of methylphenidate	Diagnosis	ICD-10-CM
T43.635A	Adverse effect of methylphenidate, initial encounter	Diagnosis	ICD-10-CM
T43.635D	Adverse effect of methylphenidate, subsequent encounter	Diagnosis	ICD-10-CM
T43.635S	Adverse effect of methylphenidate, sequela	Diagnosis	ICD-10-CM
T43.636	Underdosing of methylphenidate	Diagnosis	ICD-10-CM
T43.636A	Underdosing of methylphenidate, initial encounter	Diagnosis	ICD-10-CM
T43.636D	Underdosing of methylphenidate, subsequent encounter	Diagnosis	ICD-10-CM
T43.636S	Underdosing of methylphenidate, sequela	Diagnosis	ICD-10-CM
T43.64	Poisoning by ecstasy	Diagnosis	ICD-10-CM
T43.642	Poisoning by ecstasy, intentional self-harm	Diagnosis	ICD-10-CM
T43.642A	Poisoning by ecstasy, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.642D	Poisoning by ecstasy, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.642S	Poisoning by ecstasy, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.65	Poisoning by, adverse effect of and underdosing of methamphetamines	Diagnosis	ICD-10-CM
T43.652	Poisoning by methamphetamines intentional self-harm	Diagnosis	ICD-10-CM
T43.652A	Poisoning by methamphetamines intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.652D	Poisoning by methamphetamines intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.652S	Poisoning by methamphetamines intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.655	Adverse effect of methamphetamines	Diagnosis	ICD-10-CM
T43.655A	Adverse effect of methamphetamines, initial encounter	Diagnosis	ICD-10-CM
T43.655D	Adverse effect of methamphetamines, subsequent encounter	Diagnosis	ICD-10-CM
T43.655S	Adverse effect of methamphetamines, sequela	Diagnosis	ICD-10-CM
T43.656	Underdosing of methamphetamines	Diagnosis	ICD-10-CM
T43.656A	Underdosing of methamphetamines, initial encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T43.656D	Underdosing of methamphetamines, subsequent encounter	Diagnosis	ICD-10-CM
T43.656S	Underdosing of methamphetamines, sequela	Diagnosis	ICD-10-CM
T43.69	Poisoning by, adverse effect of and underdosing of other psychostimulants	Diagnosis	ICD-10-CM
T43.692	Poisoning by other psychostimulants, intentional self-harm	Diagnosis	ICD-10-CM
T43.692A	Poisoning by other psychostimulants, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T43.692D	Poisoning by other psychostimulants, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T43.692S	Poisoning by other psychostimulants, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T43.695	Adverse effect of other psychostimulants	Diagnosis	ICD-10-CM
T43.695A	Adverse effect of other psychostimulants, initial encounter	Diagnosis	ICD-10-CM
T43.695D	Adverse effect of other psychostimulants, subsequent encounter	Diagnosis	ICD-10-CM
T43.695S	Adverse effect of other psychostimulants, sequela	Diagnosis	ICD-10-CM
T43.696	Underdosing of other psychostimulants	Diagnosis	ICD-10-CM
T43.696A	Underdosing of other psychostimulants, initial encounter	Diagnosis	ICD-10-CM
T43.696D	Underdosing of other psychostimulants, subsequent encounter	Diagnosis	ICD-10-CM
T43.696S	Underdosing of other psychostimulants, sequela	Diagnosis	ICD-10-CM
T40.5	Poisoning by, adverse effect of and underdosing of cocaine	Diagnosis	ICD-10-CM
T40.0X	Poisoning by, adverse effect of and underdosing of opium	Diagnosis	ICD-10-CM
T40.0X2	Poisoning by opium, intentional self-harm	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X2D	Poisoning by opium, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X2S	Poisoning by opium, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.0X5	Adverse effect of opium	Diagnosis	ICD-10-CM
T40.0X5A	Adverse effect of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X5D	Adverse effect of opium, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X5S	Adverse effect of opium, sequela	Diagnosis	ICD-10-CM
T40.0X6	Underdosing of opium	Diagnosis	ICD-10-CM
T40.0X6A	Underdosing of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X6D	Underdosing of opium, subsequent encounter	Diagnosis	ICD-10-CM
T40.0X6S	Underdosing of opium, sequela	Diagnosis	ICD-10-CM
T40.1X	Poisoning by and adverse effect of heroin	Diagnosis	ICD-10-CM
T40.1X2	Poisoning by heroin, intentional self-harm	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X2D	Poisoning by heroin, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X2S	Poisoning by heroin, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.1X5	Adverse effect of heroin	Diagnosis	ICD-10-CM
T40.1X5A	Adverse effect of heroin, initial encounter	Diagnosis	ICD-10-CM
T40.1X5D	Adverse effect of heroin, subsequent encounter	Diagnosis	ICD-10-CM
T40.1X5S	Adverse effect of heroin, sequela	Diagnosis	ICD-10-CM
T40.2X	Poisoning by, adverse effect of and underdosing of other opioids	Diagnosis	ICD-10-CM
T40.2X2	Poisoning by other opioids, intentional self-harm	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X2D	Poisoning by other opioids, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X2S	Poisoning by other opioids, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.2X5	Adverse effect of other opioids	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.2X5A	Adverse effect of other opioids, initial encounter	Diagnosis	ICD-10-CM
T40.2X5D	Adverse effect of other opioids, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X5S	Adverse effect of other opioids, sequela	Diagnosis	ICD-10-CM
T40.2X6	Underdosing of other opioids	Diagnosis	ICD-10-CM
T40.2X6A	Underdosing of other opioids, initial encounter	Diagnosis	ICD-10-CM
T40.2X6D	Underdosing of other opioids, subsequent encounter	Diagnosis	ICD-10-CM
T40.2X6S	Underdosing of other opioids, sequela	Diagnosis	ICD-10-CM
T40.3X	Poisoning by, adverse effect of and underdosing of methadone	Diagnosis	ICD-10-CM
T40.3X2	Poisoning by methadone, intentional self-harm	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X2D	Poisoning by methadone, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X2S	Poisoning by methadone, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.3X5	Adverse effect of methadone	Diagnosis	ICD-10-CM
T40.3X5A	Adverse effect of methadone, initial encounter	Diagnosis	ICD-10-CM
T40.3X5D	Adverse effect of methadone, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X5S	Adverse effect of methadone, sequela	Diagnosis	ICD-10-CM
T40.3X6	Underdosing of methadone	Diagnosis	ICD-10-CM
T40.3X6A	Underdosing of methadone, initial encounter	Diagnosis	ICD-10-CM
T40.3X6D	Underdosing of methadone, subsequent encounter	Diagnosis	ICD-10-CM
T40.3X6S	Underdosing of methadone, sequela	Diagnosis	ICD-10-CM
T40.41	Poisoning by, adverse effect of and underdosing of fentanyl or fentanyl analogs	Diagnosis	ICD-10-CM
T40.412	Poisoning by fentanyl or fentanyl analogs, intentional self-harm	Diagnosis	ICD-10-CM
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.412D	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.412S	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.415	Adverse effect of fentanyl or fentanyl analogs	Diagnosis	ICD-10-CM
T40.415A	Adverse effect of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.415D	Adverse effect of fentanyl or fentanyl analogs, subsequent encounter	Diagnosis	ICD-10-CM
T40.415S	Adverse effect of fentanyl or fentanyl analogs, sequela	Diagnosis	ICD-10-CM
T40.416	Underdosing of fentanyl or fentanyl analogs	Diagnosis	ICD-10-CM
T40.416A	Underdosing of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.416D	Underdosing of fentanyl or fentanyl analogs, subsequent encounter	Diagnosis	ICD-10-CM
T40.416S	Underdosing of fentanyl or fentanyl analogs, sequela	Diagnosis	ICD-10-CM
T40.42	Poisoning by, adverse effect of and underdosing of tramadol	Diagnosis	ICD-10-CM
T40.422	Poisoning by tramadol, intentional self-harm	Diagnosis	ICD-10-CM
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.422D	Poisoning by tramadol, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.422S	Poisoning by tramadol, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.425	Adverse effect of tramadol	Diagnosis	ICD-10-CM
T40.425A	Adverse effect of tramadol, initial encounter	Diagnosis	ICD-10-CM
T40.425D	Adverse effect of tramadol, subsequent encounter	Diagnosis	ICD-10-CM
T40.425S	Adverse effect of tramadol, sequela	Diagnosis	ICD-10-CM
T40.426	Underdosing of tramadol	Diagnosis	ICD-10-CM
T40.426A	Underdosing of tramadol, initial encounter	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.426D	Underdosing of tramadol, subsequent encounter	Diagnosis	ICD-10-CM
T40.426S	Underdosing of tramadol, sequela	Diagnosis	ICD-10-CM
T40.49	Poisoning by, adverse effect of and underdosing of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.491	Poisoning by other synthetic narcotics, accidental (unintentional)	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.491D	Poisoning by other synthetic narcotics, accidental (unintentional), subsequent encounter	Diagnosis	ICD-10-CM
T40.491S	Poisoning by other synthetic narcotics, accidental (unintentional), sequela	Diagnosis	ICD-10-CM
T40.492	Poisoning by other synthetic narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.492D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.492S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.495	Adverse effect of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.495A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.495D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.495S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.496	Underdosing of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.496A	Underdosing of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.496D	Underdosing of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.496S	Underdosing of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.4X	Poisoning by, adverse effect of and underdosing of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.4X2	Poisoning by other synthetic narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X2D	Poisoning by other synthetic narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X2S	Poisoning by other synthetic narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.4X5	Adverse effect of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.4X5A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X5D	Adverse effect of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X5S	Adverse effect of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.4X6	Underdosing of other synthetic narcotics	Diagnosis	ICD-10-CM
T40.4X6A	Underdosing of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X6D	Underdosing of other synthetic narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.4X6S	Underdosing of other synthetic narcotics, sequela	Diagnosis	ICD-10-CM
T40.60	Poisoning by, adverse effect of and underdosing of unspecified narcotics	Diagnosis	ICD-10-CM
T40.602	Poisoning by unspecified narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.602D	Poisoning by unspecified narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.602S	Poisoning by unspecified narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.605	Adverse effect of unspecified narcotics	Diagnosis	ICD-10-CM
T40.605A	Adverse effect of unspecified narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.605D	Adverse effect of unspecified narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.605S	Adverse effect of unspecified narcotics, sequela	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
T40.606	Underdosing of unspecified narcotics	Diagnosis	ICD-10-CM
T40.606A	Underdosing of unspecified narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.606D	Underdosing of unspecified narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.606S	Underdosing of unspecified narcotics, sequela	Diagnosis	ICD-10-CM
T40.69	Poisoning by, adverse effect of and underdosing of other narcotics	Diagnosis	ICD-10-CM
T40.692	Poisoning by other narcotics, intentional self-harm	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.692D	Poisoning by other narcotics, intentional self-harm, subsequent encounter	Diagnosis	ICD-10-CM
T40.692S	Poisoning by other narcotics, intentional self-harm, sequela	Diagnosis	ICD-10-CM
T40.695	Adverse effect of other narcotics	Diagnosis	ICD-10-CM
T40.695A	Adverse effect of other narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.695D	Adverse effect of other narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.695S	Adverse effect of other narcotics, sequela	Diagnosis	ICD-10-CM
T40.696	Underdosing of other narcotics	Diagnosis	ICD-10-CM
T40.696A	Underdosing of other narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.696D	Underdosing of other narcotics, subsequent encounter	Diagnosis	ICD-10-CM
T40.696S	Underdosing of other narcotics, sequela	Diagnosis	ICD-10-CM
T40.1	Poisoning by and adverse effect of heroin	Diagnosis	ICD-10-CM
T40.3X4	Poisoning by methadone, undetermined	Diagnosis	ICD-10-CM
T40.494	Poisoning by other synthetic narcotics, undetermined	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.494D	Poisoning by other synthetic narcotics, undetermined, subsequent encounter	Diagnosis	ICD-10-CM
T40.494S	Poisoning by other synthetic narcotics, undetermined, sequela	Diagnosis	ICD-10-CM
Cancer			
C15.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-10-CM
C15.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-10-CM
C15.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-10-CM
C15.8	Malignant neoplasm of overlapping sites of esophagus	Diagnosis	ICD-10-CM
C15.9	Malignant neoplasm of esophagus, unspecified	Diagnosis	ICD-10-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
C21.0	Malignant neoplasm of anus, unspecified	Diagnosis	ICD-10-CM
C21.1	Malignant neoplasm of anal canal	Diagnosis	ICD-10-CM
C21.2	Malignant neoplasm of cloacogenic zone	Diagnosis	ICD-10-CM
C21.8	Malignant neoplasm of overlapping sites of rectum, anus and anal canal	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C22.3	Angiosarcoma of liver	Diagnosis	ICD-10-CM
C22.4	Other sarcomas of liver	Diagnosis	ICD-10-CM
C22.7	Other specified carcinomas of liver	Diagnosis	ICD-10-CM
C22.8	Malignant neoplasm of liver, primary, unspecified as to type	Diagnosis	ICD-10-CM
C25.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-10-CM
C25.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-10-CM
C25.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-10-CM
C25.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-10-CM
C25.4	Malignant neoplasm of endocrine pancreas	Diagnosis	ICD-10-CM
C25.7	Malignant neoplasm of other parts of pancreas	Diagnosis	ICD-10-CM
C25.8	Malignant neoplasm of overlapping sites of pancreas	Diagnosis	ICD-10-CM
C25.9	Malignant neoplasm of pancreas, unspecified	Diagnosis	ICD-10-CM
C34.00	Malignant neoplasm of unspecified main bronchus	Diagnosis	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	Diagnosis	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	Diagnosis	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	Diagnosis	ICD-10-CM
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	Diagnosis	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	Diagnosis	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	Diagnosis	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	Diagnosis	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	Diagnosis	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	Diagnosis	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	Diagnosis	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	Diagnosis	ICD-10-CM
C43.0	Malignant melanoma of lip	Diagnosis	ICD-10-CM
C43.10	Malignant melanoma of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
C43.11	Malignant melanoma of right eyelid, including canthus	Diagnosis	ICD-10-CM
C43.12	Malignant melanoma of left eyelid, including canthus	Diagnosis	ICD-10-CM
C43.20	Malignant melanoma of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
C43.21	Malignant melanoma of right ear and external auricular canal	Diagnosis	ICD-10-CM
C43.22	Malignant melanoma of left ear and external auricular canal	Diagnosis	ICD-10-CM
C43.30	Malignant melanoma of unspecified part of face	Diagnosis	ICD-10-CM
C43.31	Malignant melanoma of nose	Diagnosis	ICD-10-CM
C43.39	Malignant melanoma of other parts of face	Diagnosis	ICD-10-CM
C43.4	Malignant melanoma of scalp and neck	Diagnosis	ICD-10-CM
C43.51	Malignant melanoma of anal skin	Diagnosis	ICD-10-CM
C43.52	Malignant melanoma of skin of breast	Diagnosis	ICD-10-CM
C43.59	Malignant melanoma of other part of trunk	Diagnosis	ICD-10-CM
C43.60	Malignant melanoma of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.61	Malignant melanoma of right upper limb, including shoulder	Diagnosis	ICD-10-CM
C43.62	Malignant melanoma of left upper limb, including shoulder	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C43.70	Malignant melanoma of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
C43.71	Malignant melanoma of right lower limb, including hip	Diagnosis	ICD-10-CM
C43.72	Malignant melanoma of left lower limb, including hip	Diagnosis	ICD-10-CM
C43.8	Malignant melanoma of overlapping sites of skin	Diagnosis	ICD-10-CM
C43.9	Malignant melanoma of skin, unspecified	Diagnosis	ICD-10-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C50.622	Malignant neoplasm of axillary tail of left male breast	Diagnosis	ICD-10-CM
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	Diagnosis	ICD-10-CM
C50.811	Malignant neoplasm of overlapping sites of right female breast	Diagnosis	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	Diagnosis	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	Diagnosis	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	Diagnosis	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	Diagnosis	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	Diagnosis	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	Diagnosis	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	Diagnosis	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	Diagnosis	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	Diagnosis	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	Diagnosis	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
C53.0	Malignant neoplasm of endocervix	Diagnosis	ICD-10-CM
C53.1	Malignant neoplasm of exocervix	Diagnosis	ICD-10-CM
C53.8	Malignant neoplasm of overlapping sites of cervix uteri	Diagnosis	ICD-10-CM
C53.9	Malignant neoplasm of cervix uteri, unspecified	Diagnosis	ICD-10-CM
C54.0	Malignant neoplasm of isthmus uteri	Diagnosis	ICD-10-CM
C54.1	Malignant neoplasm of endometrium	Diagnosis	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	Diagnosis	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	Diagnosis	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	Diagnosis	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	Diagnosis	ICD-10-CM
C55	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-10-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	Diagnosis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	Diagnosis	ICD-10-CM
C65.1	Malignant neoplasm of right renal pelvis	Diagnosis	ICD-10-CM
C65.2	Malignant neoplasm of left renal pelvis	Diagnosis	ICD-10-CM
C65.9	Malignant neoplasm of unspecified renal pelvis	Diagnosis	ICD-10-CM
C67.0	Malignant neoplasm of trigone of bladder	Diagnosis	ICD-10-CM
C67.1	Malignant neoplasm of dome of bladder	Diagnosis	ICD-10-CM
C67.2	Malignant neoplasm of lateral wall of bladder	Diagnosis	ICD-10-CM
C67.3	Malignant neoplasm of anterior wall of bladder	Diagnosis	ICD-10-CM
C67.4	Malignant neoplasm of posterior wall of bladder	Diagnosis	ICD-10-CM
C67.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-10-CM
C67.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-10-CM
C67.7	Malignant neoplasm of urachus	Diagnosis	ICD-10-CM
C67.8	Malignant neoplasm of overlapping sites of bladder	Diagnosis	ICD-10-CM
C67.9	Malignant neoplasm of bladder, unspecified	Diagnosis	ICD-10-CM
C73	Malignant neoplasm of thyroid gland	Diagnosis	ICD-10-CM
C74.00	Malignant neoplasm of cortex of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.01	Malignant neoplasm of cortex of right adrenal gland	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C74.02	Malignant neoplasm of cortex of left adrenal gland	Diagnosis	ICD-10-CM
C74.10	Malignant neoplasm of medulla of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.11	Malignant neoplasm of medulla of right adrenal gland	Diagnosis	ICD-10-CM
C74.12	Malignant neoplasm of medulla of left adrenal gland	Diagnosis	ICD-10-CM
C74.90	Malignant neoplasm of unspecified part of unspecified adrenal gland	Diagnosis	ICD-10-CM
C74.91	Malignant neoplasm of unspecified part of right adrenal gland	Diagnosis	ICD-10-CM
C74.92	Malignant neoplasm of unspecified part of left adrenal gland	Diagnosis	ICD-10-CM
C75.0	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-10-CM
C75.1	Malignant neoplasm of pituitary gland	Diagnosis	ICD-10-CM
C75.2	Malignant neoplasm of craniopharyngeal duct	Diagnosis	ICD-10-CM
C75.3	Malignant neoplasm of pineal gland	Diagnosis	ICD-10-CM
C75.4	Malignant neoplasm of carotid body	Diagnosis	ICD-10-CM
C75.5	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-10-CM
C75.8	Malignant neoplasm with pluriglandular involvement, unspecified	Diagnosis	ICD-10-CM
C75.9	Malignant neoplasm of endocrine gland, unspecified	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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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	Diagnosis	ICD-10-CM
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
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
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
C84.60	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	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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM
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

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C85.21	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
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	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	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
C88.4	Extranodal marginal zone B-cell lymphoma of mucosa-associated lymphoid tissue [MALT-lymphoma]	Diagnosis	ICD-10-CM
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.11	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C91.00	Acute lymphoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.01	Acute lymphoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C91.10	Chronic lymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.11	Chronic lymphocytic leukemia of B-cell type in remission	Diagnosis	ICD-10-CM
C91.30	Prolymphocytic leukemia of B-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.31	Prolymphocytic leukemia of B-cell type, in remission	Diagnosis	ICD-10-CM
C91.40	Hairy cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.41	Hairy cell leukemia, in remission	Diagnosis	ICD-10-CM
C91.50	Adult T-cell lymphoma/leukemia (HTLV-1-associated) not having achieved remission	Diagnosis	ICD-10-CM
C91.51	Adult T-cell lymphoma/leukemia (HTLV-1-associated), in remission	Diagnosis	ICD-10-CM
C91.60	Prolymphocytic leukemia of T-cell type not having achieved remission	Diagnosis	ICD-10-CM
C91.61	Prolymphocytic leukemia of T-cell type, in remission	Diagnosis	ICD-10-CM
C91.90	Lymphoid leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C91.91	Lymphoid leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C91.A0	Mature B-cell leukemia Burkitt-type not having achieved remission	Diagnosis	ICD-10-CM
C91.A1	Mature B-cell leukemia Burkitt-type, in remission	Diagnosis	ICD-10-CM
C91.Z0	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.Z1	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C92.00	Acute myeloblastic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.01	Acute myeloblastic leukemia, in remission	Diagnosis	ICD-10-CM
C92.10	Chronic myeloid leukemia, BCR/ABL-positive, not having achieved remission	Diagnosis	ICD-10-CM
C92.11	Chronic myeloid leukemia, BCR/ABL-positive, in remission	Diagnosis	ICD-10-CM
C92.20	Atypical chronic myeloid leukemia, BCR/ABL-negative, not having achieved remission	Diagnosis	ICD-10-CM
C92.21	Atypical chronic myeloid leukemia, BCR/ABL-negative, in remission	Diagnosis	ICD-10-CM
C92.30	Myeloid sarcoma, not having achieved remission	Diagnosis	ICD-10-CM
C92.31	Myeloid sarcoma, in remission	Diagnosis	ICD-10-CM
C92.40	Acute promyelocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.41	Acute promyelocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.50	Acute myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C92.51	Acute myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C92.60	Acute myeloid leukemia with 11q23-abnormality not having achieved remission	Diagnosis	ICD-10-CM
C92.61	Acute myeloid leukemia with 11q23-abnormality in remission	Diagnosis	ICD-10-CM
C92.90	Myeloid leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C92.91	Myeloid leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C92.A0	Acute myeloid leukemia with multilineage dysplasia, not having achieved remission	Diagnosis	ICD-10-CM
C92.A1	Acute myeloid leukemia with multilineage dysplasia, in remission	Diagnosis	ICD-10-CM
C92.Z0	Other myeloid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C92.Z1	Other myeloid leukemia, in remission	Diagnosis	ICD-10-CM
C93.00	Acute monoblastic/monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.01	Acute monoblastic/monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.10	Chronic myelomonocytic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C93.11	Chronic myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM

Appendix E. 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), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Baseline Characteristics in this Request

Code	Description	Code Category	Code Type
C93.30	Juvenile myelomonocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.31	Juvenile myelomonocytic leukemia, in remission	Diagnosis	ICD-10-CM
C93.90	Monocytic leukemia, unspecified, not having achieved remission	Diagnosis	ICD-10-CM
C93.91	Monocytic leukemia, unspecified in remission	Diagnosis	ICD-10-CM
C93.Z0	Other monocytic leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C93.Z1	Other monocytic leukemia, in remission	Diagnosis	ICD-10-CM
C94.00	Acute erythroid leukemia, not having achieved remission	Diagnosis	ICD-10-CM
C94.01	Acute erythroid leukemia, in remission	Diagnosis	ICD-10-CM
C94.20	Acute megakaryoblastic leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.21	Acute megakaryoblastic leukemia, in remission	Diagnosis	ICD-10-CM
C94.30	Mast cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C94.31	Mast cell leukemia, in remission	Diagnosis	ICD-10-CM
C94.80	Other specified leukemias not having achieved remission	Diagnosis	ICD-10-CM
C94.81	Other specified leukemias, in remission	Diagnosis	ICD-10-CM
C95.00	Acute leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.01	Acute leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.10	Chronic leukemia of unspecified cell type not having achieved remission	Diagnosis	ICD-10-CM
C95.11	Chronic leukemia of unspecified cell type, in remission	Diagnosis	ICD-10-CM
C95.90	Leukemia, unspecified not having achieved remission	Diagnosis	ICD-10-CM
C95.91	Leukemia, unspecified, in remission	Diagnosis	ICD-10-CM
C96.4	Sarcoma of dendritic cells (accessory cells)	Diagnosis	ICD-10-CM
C96.9	Malignant neoplasm of lymphoid, hematopoietic and related tissue, unspecified	Diagnosis	ICD-10-CM
C96.Z	Other specified malignant neoplasms of lymphoid, hematopoietic and related tissue	Diagnosis	ICD-10-CM
D03.0	Melanoma in situ of lip	Diagnosis	ICD-10-CM
D03.10	Melanoma in situ of unspecified eyelid, including canthus	Diagnosis	ICD-10-CM
D03.11	Melanoma in situ of right eyelid, including canthus	Diagnosis	ICD-10-CM
D03.12	Melanoma in situ of left eyelid, including canthus	Diagnosis	ICD-10-CM
D03.20	Melanoma in situ of unspecified ear and external auricular canal	Diagnosis	ICD-10-CM
D03.21	Melanoma in situ of right ear and external auricular canal	Diagnosis	ICD-10-CM
D03.22	Melanoma in situ of left ear and external auricular canal	Diagnosis	ICD-10-CM
D03.30	Melanoma in situ of unspecified part of face	Diagnosis	ICD-10-CM
D03.39	Melanoma in situ of other parts of face	Diagnosis	ICD-10-CM
D03.4	Melanoma in situ of scalp and neck	Diagnosis	ICD-10-CM
D03.51	Melanoma in situ of anal skin	Diagnosis	ICD-10-CM
D03.52	Melanoma in situ of breast (skin) (soft tissue)	Diagnosis	ICD-10-CM
D03.59	Melanoma in situ of other part of trunk	Diagnosis	ICD-10-CM
D03.60	Melanoma in situ of unspecified upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.61	Melanoma in situ of right upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.62	Melanoma in situ of left upper limb, including shoulder	Diagnosis	ICD-10-CM
D03.70	Melanoma in situ of unspecified lower limb, including hip	Diagnosis	ICD-10-CM
D03.71	Melanoma in situ of right lower limb, including hip	Diagnosis	ICD-10-CM
D03.72	Melanoma in situ of left lower limb, including hip	Diagnosis	ICD-10-CM
D03.8	Melanoma in situ of other sites	Diagnosis	ICD-10-CM
D03.9	Melanoma in situ, unspecified	Diagnosis	ICD-10-CM

Appendix F. Specifications Defining Parameters for this Request

This request was executed on the Cohort Identification and Descriptive Analysis (CIDA) tool v13.1.0 to investigate the use of Attention-Deficit/Hyperactivity Disorder (ADHD) Medications or Opioid Analgesics within pre- and post-pandemic time periods among prespecified age groups in the Sentinel Distributed Database (SDD).

1. R01: Type 5 (Overall study period)
2. R02: Type 5 (Pre-pandemic study period)
3. R03: Type 5 (Pandemic study period)
4. R04: Type 5 (Post-pandemic study period)

Query period: January 1, 2017 - March 31, 2023 (overall)
 April 1, 2018 - March 31, 2020 (pre-pandemic)
 April 1, 2020 - March 31, 2022 (pandemic)
 April 1, 2022 - March 31, 2023 (latest available)

Coverage requirement: Medical & Drug Coverage

Pre-index enrollment requirement: 365 days

Post-index requirement: N/A

Enrollment gap: 45

Age groups: See below in the Age Group column

Stratifications: Age groups
 Census Bureau (CB) region

Censor output categorization: -

Restrictions: None

Distribution of index-defining codes: No

Envelope macro: *Reclassify outpatient (AV), emergency department (ED), and other ambulatory (OA) encounters that occur during an inpatient stay as inpatient (IP) encounters. Do not reclassify if an encounter occurs on the day of admission (ADate).

Freeze data: Yes (for v01 only) (See Notes below)

Stockpiling See stockpiling tab

Appendix F. Specifications Defining Parameters for this Request

This request was executed on the Cohort Identification and Descriptive Analysis (CIDA) tool v13.1.0 to investigate the use of Attention-Deficit/Hyperactivity Disorder (ADHD) Medications or Opioid Analgesics within pre- and post-pandemic time periods among prespecified age groups in the Sentinel Distributed Database (SDD).

1. R01: Type 5 (Overall study period)
2. R02: Type 5 (Pre-pandemic study period)
3. R03: Type 5 (Pandemic study period)
4. R04: Type 5 (Post-pandemic study period)

Features: Run type 2 cohort off of Type 5 cohort of corresponding query period to ensure identical patients captured
 Carry forward other reporting features from cder_mpl1p_wp085
 Output the number of patients who had a mean/median current filled daily dose across all their dispensings within a user defined range
 Most frequent utilization (MFU) output and reporting
 Compute t-statistic and Z-statistic for comparisons between proportions between pre-pandemic and pandemic query periods, and report p-value

Notes: wp085 and wp087 will be distributed in three waves:

1. Distribution 1 (wp085 v04) – overall cohorts (with group names containing “_5plus”) from r01 (overall study period) will be distributed to DPs. Data will be frozen.
2. Distribution 2 (wp085 v06) – all cohorts from r01-r04 (all type 5 runs) will be distributed to DPs. Package will point to data frozen from v01. Data in v02 will not be frozen.
3. Distribution 3 (wp087 v01) – all cohorts (r01-r07) will be distributed to DPs. Package will point to data frozen from v01. Data in v03 will not be frozen.

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	
Overall	1	5+ years	5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+ Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexmethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	
	2	5+ years	5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+ Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	
	3	5+ years	5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+ Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	

Appendix F. Specifications Defining Parameters for this Request

Exposure							
Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	
5-17 years	4	5-17 years	5-12 13-17	Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexmethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	5	5-17 Years	5-12 13-17	Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	6	5-17 years	5-12 13-17	Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
	Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings
18-25 Years	7	18-25 Years	18-25	Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexmethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	8	18-25 Years	18-25	Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	9	18-25 Years	18-25	Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
	Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings
26-44 Years	10	26-44 Years	26-29 30-39 40-44	Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexamethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	11	26-44 Years	26-29 30-39 40-44	Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	12	26-44 Years	26-29 30-39 40-44	Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
							Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings
Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period		
45-64 Years	13	45-64 Years	45-54 55-64	Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexamethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	14	45-64 Years	45-54 55-64	Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	15	45-64 Years	45-54 55-64	Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
							Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings
Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period		
65+ Years	16	65+ Years	65+	Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexmethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	17	65+ Years	65+	Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;
	18	65+ Years	65+	Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;

Appendix F. Specifications Defining Parameters for this Request							
Exposure							
Scenario	Age Restriction	Age Group	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings	
18+ Years	19	18+ Years	18-25 26-29 30-39 40-49 50-64 65+ Stimulant Medications for ADHD (amphetamine, dextroamphetamine, lisdexamfetamine, methamphetamine, methylphenidate, dexamethylphenidate, serdexmethylphenidate) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	
	20	18+ Years	18-25 26-29 30-39 40-49 50-64 65+ Non-Stimulant Medications for ADHD (atomoxetine, clonidine (extended-release patch/oral solid), guanfacine, viloxazine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	
	21	18+ Years	18-25 26-29 30-39 40-49 50-64 65+ Schedule II (C-II) Opioid Analgesics (benzhydrocodone, fentanyl, hydrocodone, hydromorphone, levorphanol, meperidine, methadone, morphine, oxycodone, oxymorphone, sufentanil, tapentadol, single product codeine) (first episode duration of 7+ days)	*Include all valid exposure episodes during query period; --only the first valid exposure episode's incidence is assessed using washout criteria	365 days	*Washout lookback period should search for evidence of days supply;	

Appendix F. Specifications Defining Parameters for this Request									
Scenario	Treatment Episode Gap	Treatment Episode Extension	Care Setting	Principal Diagnosis Position	Create Baseline Table?	Forced supply to Attach to Dispensings	Exposure		
							Censor Treatment Episode at Evidence of:	Current Filled Daily Dose Summary (Mean) Category	
Overall	1	30 days	None	Outpatient dispensing	N/A ¹	Yes	N/A	*Death; *Data partner (DP) end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	2	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	3	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
5-17 years	4	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	5	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A

Appendix F. Specifications Defining Parameters for this Request									
Exposure									
Scenario	Treatment Episode Gap	Treatment Episode Extension	Care Setting	Principal Diagnosis Position	Create Baseline Table?	Forced supply to Attach to Dispensings	Censor Treatment Episode at Evidence of:	Current Filled Daily Dose Summary (Mean) Category	
5-17 years	6	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
18-25 Years	7	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	8	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	9	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
26-44 Years	10	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A

Appendix F. Specifications Defining Parameters for this Request									
Exposure									
Scenario	Treatment Episode Gap	Treatment Episode Extension	Care Setting	Principal Diagnosis Position	Create Baseline Table?	Forced supply to Attach to Dispensings	Censor Treatment Episode at Evidence of:	Current Filled Daily Dose Summary (Mean) Category	
26-44 Years	11	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	12	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
45-64 Years	13	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	14	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	15	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A

Appendix F. Specifications Defining Parameters for this Request									
Scenario	Treatment Episode Gap	Treatment Episode Extension	Care Setting	Principal Diagnosis Position	Create Baseline Table?	Exposure			
						Forced supply to Attach to Dispensings	Censor Treatment Episode at Evidence of:	Current Filled Daily Dose Summary (Mean) Category	
65+ Years	16	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	17	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	18	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
18+ Years	19	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
	20	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A

Appendix F. Specifications Defining Parameters for this Request									
Exposure									
Scenario	Treatment Episode Gap	Treatment Episode Extension	Care Setting	Principal Diagnosis Position	Create Baseline Table?	Forced supply to Attach to Dispensings	Censor Treatment Episode at Evidence of:	Current Filled Daily Dose Summary (Mean) Category	
18+ Years	21	30 days	None	Outpatient dispensing	N/A	Yes	N/A	*Death; *DP end date; *Query end date; *Enrollment end date; *Episode end date	N/A
National Drug Codes (NDC) are checked against First Data Bank's FDB MedKnowledge®.									
N/A: Not Applicable									

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Demographic Characteristics	N/A ¹	Continuous age	N/A	N/A	Index Day
	N/A	Age groups (5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+)	N/A	N/A	Index Day
	N/A	Race (White, Black or African American, Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Unknown, Multi-Racial)	N/A	N/A	Index Day
	N/A	Sex (M, F)	N/A	N/A	Index Day
	N/A	Hispanic Origin (Yes, No, Unknown)	N/A	N/A	Index Day
	N/A	US Census Region (Northeast; Midwest; South; West; Other)	N/A	N/A	Index Day
	N/A	Calendar year	N/A	N/A	Index Day
	N/A	Healthcare Payor Status (Commercial payor; Public payor)	N/A	N/A	N/A
CCI Score	Riskscore	Charlson/Elixhauser combined comorbidity index	N/A	N/A	(-365, 0)
	Riskscore	Categorical Charlson/Elixhauser combined comorbidity index (<0 0 1-2 3-4 5+)	N/A	N/A	(-365, 0)
Prescription Dispensed	1	ADHD Stimulant Medication	N/A	Dispensing (Dispensings table)	(-365, 0)
	2	ADHD Non-Stimulant Medication	N/A	Dispensing (Dispensings table)	(-365, 0)
	3	Schedule II (C-II) Opioid Analgesic	N/A	Dispensing (Dispensings table)	(-365, 0)
	4	Medication for Opioid-Related Disorders	N/A	Dispensing (Dispensings table)	(-365, 0)
	5	Antidepressant Medication	N/A	Dispensing (Dispensings table)	(-365, 0)
	6	Anxiolytic or Sedative/Hypnotic Medications	N/A	Dispensing (Dispensings table)	(-365, 0)
	7	Antipsychotic Medication	N/A	Dispensing (Dispensings table)	(-365, 0)
	8	Mood Stabilizers	N/A	Dispensing (Dispensings table)	(-365, 0)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Clinical Diagnoses	9	Cancer	Any	Diagnosis	(-365, 0)
	10	Non-Cancer, Chronic Pain-Related Conditions	Any	Diagnosis	(-365, 0)
	11	Attention-Deficit/Hyperactivity Disorder	Any	Diagnosis	(-365, 0)
	12	Conduct or adjustment disorders or other related disorders on index date or year prior	Any	Diagnosis	(-365, 0)
	13	Narcolepsy	Any	Diagnosis	(-365, 0)
	14	Binge-Eating Disorder	Any	Diagnosis	(-365, 0)
	94= NOT(11 OR 13 OR 14)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or year prior	Any	CC	(-365, 0)
	96 = (94 AND 12)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders	Any	CC	(-365, 0)
	15	Attention-Deficit/Hyperactivity Disorder on index date or 30 days Prior	Any	Diagnosis	(-30, 0)
	16	Conduct or adjustment disorders or other related disorders on index date or 30 days Prior	Any	Diagnosis	(-30, 0)
	17	Narcolepsy on index date or 30 days Prior	Any	Diagnosis	(-30, 0)
	18	Binge-Eating Disorder on index date or 30 days Prior	Any	Diagnosis	(-30, 0)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Clinical Diagnoses	95= NOT(15 OR 17 OR 18)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or 30 days Prior	Any	CC	(-30, 0)
	97= (95 AND 16)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders on index date or 30 days Prior	Any	CC	(-30, 0)
	19	Hypertension	Any	Diagnosis	(-365, 0)
	20	Coronary artery disease	Any	Diagnosis	(-365, 0)
	21	Cardiac arrhythmia	Any	Diagnosis	(-365, 0)
	22	Cardiomyopathy	Any	Diagnosis	(-365, 0)
	23	Cardiac structural abnormality	Any	Diagnosis	(-365, 0)
	24	All other diseases of the circulatory system	Any	Diagnosis	(-365, 0)
	25	Epilepsy or recurrent seizures	Any	Diagnosis	(-365, 0)
Psychiatric Conditions	26	Other seizure or convulsions	Any	Diagnosis	(-365, 0)
	27	Depression	Any	Diagnosis	(-365, 0)
	28	Anxiety	Any	Diagnosis	(-365, 0)
	29	Bipolar Disorder	Any	Diagnosis	(-365, 0)
	30	Sleep Disorder	Any	Diagnosis	(-365, 0)
	31	Psychotic Disorder	Any	Diagnosis	(-365, 0)
	32	Post-Traumatic Stress Disorder (PTSD)	Any	Diagnosis	(-365, 0)
	33	Manic Episode	Any	Diagnosis	(-365, 0)
	34	Autistic Disorder	Any	Diagnosis	(-365, 0)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Substance- Related Disorder	35	Any Substance-Related Disorders	Any	Diagnosis	(-365, 0)
	36	Opioid-Related Disorders	Any	Diagnosis	(-365, 0)
	37	Stimulant-Related Disorders	Any	Diagnosis	(-365, 0)
	38	Cocaine-Related Disorders	Any	Diagnosis	(-365, 0)
	39	Other Stimulant-Related Disorders	Any	Diagnosis	(-365, 0)
	40	Alcohol-Related Disorders	Any	Diagnosis	(-365, 0)
	41	Cannabis-Related Disorders	Any	Diagnosis	(-365, 0)
	42	Tobacco-Related Disorders	Any	Diagnosis	(-365, 0)
	43	Nicotine Use, Excluding Tobacco-Related Disorder	Any	Diagnosis	(-365, 0)
Drug Poisoning	44	Unintentional or Undetermined Poisoning by Broad Category	Any	Diagnosis	(-365, 0)
	45	Opioid Poisoning, Unintentional or Undetermined Intent	Any	Diagnosis	(-365, 0)
	46	Stimulant Poisoning, Unintentional or Undetermined Intent	Any	Diagnosis	(-365, 0)
	47	Intentional Poisoning by Broad Category	Any	Diagnosis	(-365, 0)
Concurrent Prescriptions	48	Concurrent antidepressants with ADHD Stimulant medication	N/A	Dispensing	(0, all post-index patient history)
	49	Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	50	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	51	Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	52	Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Concurrent Prescriptions	53	Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	54	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	55	Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	56	Concurrent antidepressants with Schedule II Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	57	Concurrent benzodiazepines with Schedule II Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	58	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with Schedule II Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	59	Concurrent antipsychotics with Schedule II Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	60	Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	61	Concurrent ADHD Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	62	Concurrent ADHD Non-Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Concurrent Prescriptions	101	Concurrent C-II Opioid Analgesic medication with ADHD Stimulant for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
	102	Concurrent C-II Opioid Analgesic medication with ADHD Non-Stimulant for at least 7 consecutive days	N/A	Dispensing	(0, all post-index patient history)
Active Pharmaceutical Ingredients	63	Amphetamine Single-entity Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	64	Amphetamine Single-entity Products Extended Release Oral Solid	N/A	Dispensing	(0, all post-index patient history)
	65	Amphetamine Single-entity Products Extended Release Oral Liquid	N/A	Dispensing	(0, all post-index patient history)
	66	Dextroamphetamine Single-entity Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	67	Dextroamphetamine Single-entity Products Extended Release	N/A	Dispensing	(0, all post-index patient history)
	68	Amphetamine/Dextroamphetamine Combination Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	69	Amphetamine/Dextroamphetamine Combination Products Extended Release	N/A	Dispensing	(0, all post-index patient history)
	70	Lisdexamfetamine Extended Release	N/A	Dispensing	(0, all post-index patient history)
	71	Methamphetamine Single-entity Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	72	Methylphenidate Single-entity Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	73	Methylphenidate Single-entity Products Extended Release Oral Solid	N/A	Dispensing	(0, all post-index patient history)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Active Pharmaceutical Ingredients	74	Methylphenidate Single-entity Products Extended Release Oral Liquid	N/A	Dispensing	(0, all post-index patient history)
	75	Methylphenidate Single-entity Products Extended Release Transdermal Patch	N/A	Dispensing	(0, all post-index patient history)
	76	Dexmethylphenidate Single-entity Products Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	77	Dexmethylphenidate Single-entity Products Extended Release	N/A	Dispensing	(0, all post-index patient history)
	78	Dexmethylphenidate/Serdexmethylphenidate Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	79	Any ADHD Stimulant API Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	80	Any ADHD Stimulant API Extended Release	N/A	Dispensing	(0, all post-index patient history)
	81	Atomoxetine Immediate Release	N/A	Dispensing	(0, all post-index patient history)
	82	Guanfacine Extended Release	N/A	Dispensing	(0, all post-index patient history)
	83	Viloxazine Extended Release	N/A	Dispensing	(0, all post-index patient history)
	84	Clonidine Extended Release	N/A	Dispensing	(0, all post-index patient history)
	85	Any ADHD Non-Stimulant API Extended Release	N/A	Dispensing	(0, all post-index patient history)
	86	Codeine	N/A	Dispensing	(0, all post-index patient history)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
	87	Fentanyl	N/A	Dispensing	(0, all post-index patient history)
	88	Hydrocodone	N/A	Dispensing	(0, all post-index patient history)
	89	Hydromorphone	N/A	Dispensing	(0, all post-index patient history)
Active Pharmaceutical Ingredients	90	Morphine	N/A	Dispensing	(0, all post-index patient history)
	91	Oxycodone	N/A	Dispensing	(0, all post-index patient history)
	92	Oxymorphone	N/A	Dispensing	(0, all post-index patient history)
	93	Other C-II Opioid Analgesics	N/A	Dispensing	(0, all post-index patient history)
Encounters in Various Care Settings	98	At least One Encounter in the Emergency Department in Year Prior	ED*	Encounter	(-365,-1)
	99	At least One Encounter in the Inpatient Care Setting in Year Prior	IP*	Encounter	(-365,-1)
	100	At least One Encounter in the Outpatient Care Setting in Year Prior	AV* OA*	Encounter	(-365,-1)
Most Frequent Utilization	N/A	Diagnosis 1 (TBD upon MFU results)	Any	MFU (Diagnosis)	(-30, 0)
	N/A	Diagnosis 2 (TBD upon MFU results)	Any	MFU (Diagnosis)	(-30, 0)
	N/A	Diagnosis 3 (TBD upon MFU results)	Any	MFU (Diagnosis)	(-30, 0)
	N/A	Diagnosis 4 (TBD upon MFU results)	Any	MFU (Diagnosis)	(-30, 0)
	N/A	Diagnosis 5 (TBD upon MFU results)	Any	MFU (Diagnosis)	(-30, 0)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Care Setting	Code Type	Evaluation Window/ Evaluation Window Anchor Dates
Intensity of Health Care Utilization	N/A	Number of Ambulatory visits	AV	N/A	(-365, 0)
	N/A	Number of Emergency Department visits	ED	N/A	(-365, 0)
	N/A	Number of Non-Acute Institutional Stays	IS	N/A	(-365, 0)
	N/A	Number of Inpatient Hospital Stays	IP	N/A	(-365, 0)
	N/A	Number of other ambulatory visits (includes other non overnight ambulatory encounters such as home health visits, telemedicine, telephone and email consultations)	OA	N/A	(-365, 0)
Intensity of Drug Utilization	N/A	Number of dispensings	N/A	N/A	(-365, 0)
	N/A	Number of unique generics dispensed	N/A	N/A	(-365, 0)
	N/A	Number of unique drug classes dispensed	N/A	N/A	(-365, 0)

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Demographic Characteristics	N/A ¹	Continuous age	N/A	N/A	N/A	N/A
	N/A	Age groups (5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+)	N/A	N/A	N/A	N/A
	N/A	Race (White, Black or African American, Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Unknown, Multi-Racial)	N/A	N/A	N/A	N/A
	N/A	Sex (M, F)	N/A	N/A	N/A	N/A
	N/A	Hispanic Origin (Yes, No, Unknown)	N/A	N/A	N/A	N/A
	N/A	US Census Region (Northeast; Midwest; South; West; Other)	N/A	N/A	N/A	N/A
	N/A	Calendar year	N/A	N/A	N/A	N/A
	N/A	Healthcare Payor Status (Commercial payor; Public payor)	N/A	N/A	N/A	N/A
CCI Score	Riskscore	Charlson/Elixhauser combined comorbidity index	N/A	N/A	N/A	N/A
	Riskscore	Categorical Charlson/Elixhauser combined comorbidity index (<0 0 1-2 3-4 5+)	N/A	N/A	N/A	N/A
Prescription Dispensed	1	ADHD Stimulant Medication	1x	Search by dispensing date	N/A	N/A
	2	ADHD Non-Stimulant Medication	1x	Search by dispensing date	N/A	N/A
	3	Schedule II (C-II) Opioid Analgesic	1x	Search by	N/A	N/A
	4	Medication for Opioid-Related Disorders	1x	Search by	N/A	N/A
	5	Antidepressant Medication	1x	Search by	N/A	N/A
	6	Anxiolytic or Sedative/Hypnotic Medications	1x	Search by	N/A	N/A
	7	Antipsychotic Medication	1x	Search by	N/A	N/A
	8	Mood Stabilizers	1x	Search by dispensing date	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Clinical Diagnoses	9	Cancer	1x	wp085 and wp087 will be distributed in three waves:		
	10	Non-Cancer, Chronic Pain-Related Conditions	1x	N/A	N/A	N/A
	11	Attention-Deficit/Hyperactivity Disorder	1x	N/A	N/A	N/A
	12	Conduct or adjustment disorders or other related disorders on index date or year prior	1x	N/A	N/A	N/A
	13	Narcolepsy	1x	N/A	N/A	N/A
	14	Binge-Eating Disorder	1x	N/A	N/A	N/A
	94= NOT(11 OR 13 OR 14)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or year prior	1x	N/A	N/A	N/A
	96 = (94 AND 12)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders	1x	N/A	N/A	N/A
	15	Attention-Deficit/Hyperactivity Disorder on index date or 30 days Prior	1x	N/A	N/A	N/A
	16	Conduct or adjustment disorders or other related disorders on index date or 30 days Prior	1x	N/A	N/A	N/A
	17	Narcolepsy on index date or 30 days Prior	1x	N/A	N/A	N/A
	18	Binge-Eating Disorder on index date or 30 days Prior	1x	N/A	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Clinical Diagnoses	95= NOT(15 OR 17 OR 18)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or 30 days Prior	1x	N/A	N/A	N/A
	97= (95 AND 16)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders on index date or 30 days Prior	1x	N/A	N/A	N/A
	19	Hypertension	1x	N/A	N/A	N/A
	20	Coronary artery disease	1x	N/A	N/A	N/A
	21	Cardiac arrhythmia	1x	N/A	N/A	N/A
	22	Cardiomyopathy	1x	N/A	N/A	N/A
	23	Cardiac structural abnormality	1x	N/A	N/A	N/A
	24	All other diseases of the circulatory system	1x	N/A	N/A	N/A
	25	Epilepsy or recurrent seizures	1x	N/A	N/A	N/A
Psychiatric Conditions	26	Other seizure or convulsions	1x	N/A	N/A	N/A
	27	Depression	1x	N/A	N/A	N/A
	28	Anxiety	1x	N/A	N/A	N/A
	29	Bipolar Disorder	1x	N/A	N/A	N/A
	30	Sleep Disorder	1x	N/A	N/A	N/A
	31	Psychotic Disorder	1x	N/A	N/A	N/A
	32	Post-Traumatic Stress Disorder (PTSD)	1x	N/A	N/A	N/A
	33	Manic Episode	1x	N/A	N/A	N/A
	34	Autistic Disorder	1x	N/A	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Substance-Related Disorder	35	Any Substance-Related Disorders	1x	N/A	N/A	N/A
	36	Opioid-Related Disorders	1x	N/A	N/A	N/A
	37	Stimulant-Related Disorders	1x	N/A	N/A	N/A
	38	Cocaine-Related Disorders	1x	N/A	N/A	N/A
	39	Other Stimulant-Related Disorders	1x	N/A	N/A	N/A
	40	Alcohol-Related Disorders	1x	N/A	N/A	N/A
	41	Cannabis-Related Disorders	1x	N/A	N/A	N/A
	42	Tobacco-Related Disorders	1x	N/A	N/A	N/A
	43	Nicotine Use, Excluding Tobacco-Related Disorder	1x	N/A	N/A	N/A
Drug Poisoning	44	Unintentional or Undetermined Poisoning by Broad Category	1x	N/A	N/A	N/A
	45	Opioid Poisoning, Unintentional or Undetermined Intent	1x	N/A	N/A	N/A
	46	Stimulant Poisoning, Unintentional or Undetermined Intent	1x	N/A	N/A	N/A
	47	Intentional Poisoning by Broad Category	1x	N/A	N/A	N/A
Concurrent Prescriptions	48	Concurrent antidepressants with ADHD Stimulant medication	1x	Search by dispensing date	N/A	N/A
	49	Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	50	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	51	Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	52	Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Concurrent Prescriptions	53	Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	54	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	55	Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	56	Concurrent antidepressants with Schedule II Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	57	Concurrent benzodiazepines with Schedule II Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	58	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with Schedule II Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	59	Concurrent antipsychotics with Schedule II Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	60	Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	61	Concurrent ADHD Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	62	Concurrent ADHD Non-Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Concurrent Prescriptions	101	Concurrent C-II Opioid Analgesic medication with ADHD Stimulant for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
	102	Concurrent C-II Opioid Analgesic medication with ADHD Non-Stimulant for at least 7 consecutive days	1x	Search by dispensing date	N/A	N/A
Active Pharmaceutical Ingredients	63	Amphetamine Single-entity Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	64	Amphetamine Single-entity Products Extended Release Oral Solid	1x	Search by dispensing date	N/A	N/A
	65	Amphetamine Single-entity Products Extended Release Oral Liquid	1x	Search by dispensing date	N/A	N/A
	66	Dextroamphetamine Single-entity Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	67	Dextroamphetamine Single-entity Products Extended Release	1x	Search by dispensing date	N/A	N/A
	68	Amphetamine/Dextroamphetamine Combination Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	69	Amphetamine/Dextroamphetamine Combination Products Extended Release	1x	Search by dispensing date	N/A	N/A
	70	Lisdexamfetamine Extended Release	1x	Search by dispensing date	N/A	N/A
	71	Methamphetamine Single-entity Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	72	Methylphenidate Single-entity Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	73	Methylphenidate Single-entity Products Extended Release Oral Solid	1x	Search by dispensing date	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Active Pharmaceutical Ingredients	74	Methylphenidate Single-entity Products Extended Release Oral Liquid	1x	Search by dispensing date	N/A	N/A
	75	Methylphenidate Single-entity Products Extended Release Transdermal Patch	1x	Search by dispensing date	N/A	N/A
	76	Dexmethylphenidate Single-entity Products Immediate Release	1x	Search by dispensing date	N/A	N/A
	77	Dexmethylphenidate Single-entity Products Extended Release	1x	Search by dispensing date	N/A	N/A
	78	Dexmethylphenidate/Serdexmethylphenidate Immediate Release	1x	Search by dispensing date	N/A	N/A
	79	Any ADHD Stimulant API Immediate Release	1x	Search by dispensing date	N/A	N/A
	80	Any ADHD Stimulant API Extended Release	1x	Search by dispensing date	N/A	N/A
	81	Atomoxetine Immediate Release	1x	Search by dispensing date	N/A	N/A
	82	Guanfacine Extended Release	1x	Search by dispensing date	N/A	N/A
	83	Viloxazine Extended Release	1x	Search by dispensing date	N/A	N/A
	84	Clonidine Extended Release	1x	Search by dispensing date	N/A	N/A
	85	Any ADHD Non-Stimulant API Extended Release	1x	Search by dispensing date	N/A	N/A
	86	Codeine	1x	Search by dispensing date	N/A	N/A

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Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
	87	Fentanyl	1x	Search by dispensing date	N/A	N/A
	88	Hydrocodone	1x	Search by dispensing date	N/A	N/A
	89	Hydromorphone	1x	Search by dispensing date	N/A	N/A
Active Pharmaceutical Ingredients	90	Morphine	1x	Search by dispensing date	N/A	N/A
	91	Oxycodone	1x	Search by dispensing date	N/A	N/A
	92	Oxymorphone	1x	Search by dispensing date	N/A	N/A
	93	Other C-II Opioid Analgesics	1x	Search by dispensing date	N/A	N/A
Encounters in Various Care Settings	98	At least One Encounter in the Emergency Department in Year Prior	1x	Search by admit date	N/A	N/A
	99	At least One Encounter in the Inpatient Care Setting in Year Prior	1x	Search by admit date	N/A	N/A
	100	At least One Encounter in the Outpatient Care Setting in Year Prior	1x	Search by admit date	N/A	N/A
Most Frequent Utilization	N/A	Diagnosis 1 (TBD upon MFU results)	N/A	N/A	N/A	N/A
	N/A	Diagnosis 2 (TBD upon MFU results)	N/A	N/A	N/A	N/A
	N/A	Diagnosis 3 (TBD upon MFU results)	N/A	N/A	N/A	N/A
	N/A	Diagnosis 4 (TBD upon MFU results)	N/A	N/A	N/A	N/A
	N/A	Diagnosis 5 (TBD upon MFU results)	N/A	N/A	N/A	N/A

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Group	Number	Covariate	Minimum # of Instances	Search due to evidence of days supply or dispensing date	Dose details	Forced supply to attach to codes
Intensity of Health Care Utilization	N/A	Number of Ambulatory visits	N/A	N/A	N/A	N/A
	N/A	Number of Emergency Department visits	N/A	N/A	N/A	N/A
	N/A	Number of Non-Acute Institutional Stays	N/A	N/A	N/A	N/A
	N/A	Number of Inpatient Hospital Stays	N/A	N/A	N/A	N/A
	N/A	Number of other ambulatory visits (includes other non overnight ambulatory encounters such as home health visits, telemedicine, telephone and email consultations)	N/A	N/A	N/A	N/A
Intensity of Drug Utilization	N/A	Number of dispensings	N/A	N/A	N/A	N/A
	N/A	Number of unique generics dispensed	N/A	N/A	N/A	N/A
	N/A	Number of unique drug classes dispensed	N/A	N/A	N/A	N/A

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Demographic Characteristics	N/A ¹	Continuous age	Continuous	Yes	No
	N/A	Age groups (5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+)	Categorical	No	Yes
	N/A	Race (White, Black or African American, Asian, American Indian or Alaska Native, Native Hawaiian or Other Pacific Islander, Unknown, Multi-Racial)	Categorical	No	No
	N/A	Sex (M, F)	Categorical	Yes	Yes
	N/A	Hispanic Origin (Yes, No, Unknown)	Categorical	No	No
	N/A	US Census Region (Northeast; Midwest; South; West; Other)	Categorical	No	No
	N/A	Calendar year	Categorical	No	No
	N/A	Healthcare Payor Status (Commercial payor; Public payor)	Categorical	No	No
CCI Score	Risk score	Charlson/Elixhauser combined comorbidity index	Continuous	Yes	No
	Risk score	Categorical Charlson/Elixhauser combined comorbidity index (<0 0 1-2 3-4 5+)	Categorical	No	No
Prescription Dispensed	1	ADHD Stimulant Medication	Categorical	Table 3	No
	2	ADHD Non-Stimulant Medication	Categorical	Table 3	No
	3	Schedule II (C-II) Opioid Analgesic	Categorical	Table 3	No
	4	Medication for Opioid-Related Disorders	Categorical	Table 3	No
	5	Antidepressant Medication	Categorical	Table 3	No
	6	Anxiolytic or Sedative/Hypnotic Medications	Categorical	Table 3	No
	7	Antipsychotic Medication	Categorical	Table 3	No
	8	Mood Stabilizers	Categorical	Table 3	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Clinical Diagnoses	9	Cancer			
	10	Non-Cancer, Chronic Pain-Related Conditions	Categorical	Table 3	No
	11	Attention-Deficit/Hyperactivity Disorder	Categorical	Table 4A	No
	12	Conduct or adjustment disorders or other related disorders on index date or year prior	Categorical	Table 3	No
	13	Narcolepsy	Categorical	Table 4A	No
	14	Binge-Eating Disorder	Categorical	Table 4A	No
	94= NOT(11 OR 13 OR 14)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or year prior	Categorical	Table 4A	No
	96 = (94 AND 12)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders	Categorical	Table 4A	No
	15	Attention-Deficit/Hyperactivity Disorder on index date or 30 days Prior	Categorical	Table 4A	No
	16	Conduct or adjustment disorders or other related disorders on index date or 30 days Prior	Categorical	Table 4A	No
	17	Narcolepsy on index date or 30 days Prior	Categorical	Table 4A	No
	18	Binge-Eating Disorder on index date or 30 days Prior	Categorical	Table 4A	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Clinical Diagnoses	95= NOT(15 OR 17 OR 18)	No diagnosis of ADHD, and no Narcolepsy, and no Binge-Eating Disorder on index date or 30 days Prior	Categorical	Table 4A	No
	97= (95 AND 16)	No diagnosis of ADHD AND No Narcolepsy AND No Binge-Eating Disorder AND a diagnosis of conduct or adjustment disorders on index date or 30 days Prior	Categorical	Table 4A	
	19	Hypertension	Categorical	Table 3	No
	20	Coronary artery disease	Categorical	Table 3	No
	21	Cardiac arrhythmia	Categorical	Table 3	No
	22	Cardiomyopathy	Categorical	Table 3	No
	23	Cardiac structural abnormality	Categorical	Table 3	No
	24	All other diseases of the circulatory system	Categorical	Table 3	No
	25	Epilepsy or recurrent seizures	Categorical	Table 3	No
Psychiatric Conditions	26	Other seizure or convulsions	Categorical	Table 3	No
	27	Depression	Categorical	Table 3	No
	28	Anxiety	Categorical	Table 3	No
	29	Bipolar Disorder	Categorical	Table 3	No
	30	Sleep Disorder	Categorical	Table 3	No
	31	Psychotic Disorder	Categorical	Table 3	No
	32	Post-Traumatic Stress Disorder (PTSD)	Categorical	Table 3	No
	33	Manic Episode	Categorical	Table 3	No
	34	Autistic Disorder	Categorical	Table 3	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Substance-Related Disorder	35	Any Substance-Related Disorders	Categorical	Table 3	No
	36	Opioid-Related Disorders	Categorical	Table 3	No
	37	Stimulant-Related Disorders	Categorical	Table 3	No
	38	Cocaine-Related Disorders	Categorical	Table 3	No
	39	Other Stimulant-Related Disorders	Categorical	Table 3	No
	40	Alcohol-Related Disorders	Categorical	Table 3	No
	41	Cannabis-Related Disorders	Categorical	Table 3	No
	42	Tobacco-Related Disorders	Categorical	Table 3	No
	43	Nicotine Use, Excluding Tobacco-Related Disorder	Categorical	Table 3	No
Drug Poisoning	44	Unintentional or Undetermined Poisoning by Broad Category	Categorical	Table 3	No
	45	Opioid Poisoning, Unintentional or Undetermined Intent	Categorical	Table 3	No
	46	Stimulant Poisoning, Unintentional or Undetermined Intent	Categorical	Table 3	No
	47	Intentional Poisoning by Broad Category	Categorical	Table 3	No
Concurrent Prescriptions	48	Concurrent antidepressants with ADHD Stimulant medication	Categorical	Table 5	No
	49	Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	what	Table 5	No
	50	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	51	Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	52	Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Concurrent Prescriptions	53	Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	54	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	55	Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	56	Concurrent antidepressants with Schedule II Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No
	57	Concurrent benzodiazepines with Schedule II Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No
	58	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with Schedule II Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No
	59	Concurrent antipsychotics with Schedule II Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No
	60	Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	Categorical	Table 5	No
	61	Concurrent ADHD Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No
	62	Concurrent ADHD Non-Stimulant medication with all Opioid Analgesic for at least 7 consecutive days	Categorical	Table 5	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Concurrent Prescriptions	101	Concurrent C-II Opioid Analgesic medication with ADHD Stimulant for at least 7 consecutive days	Categorical	Table 5	No
	102	Concurrent C-II Opioid Analgesic medication with ADHD Non-Stimulant for at least 7 consecutive days	Categorical	Table 5	No
Active Pharmaceutical Ingredients	63	Amphetamine Single-entity Products Immediate Release	Categorical		No
	64	Amphetamine Single-entity Products Extended Release Oral Solid	Categorical		No
	65	Amphetamine Single-entity Products Extended Release Oral Liquid	Categorical		No
	66	Dextroamphetamine Single-entity Products Immediate Release	Categorical		No
	67	Dextroamphetamine Single-entity Products Extended Release	Categorical		No
	68	Amphetamine/Dextroamphetamine Combination Products Immediate Release	Categorical		No
	69	Amphetamine/Dextroamphetamine Combination Products Extended Release	Categorical		No
	70	Lisdexamfetamine Extended Release	Categorical		No
	71	Methamphetamine Single-entity Products Immediate Release	Categorical		No
	72	Methylphenidate Single-entity Products Immediate Release	Categorical		No
	73	Methylphenidate Single-entity Products Extended Release Oral Solid	Categorical		No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Active Pharmaceutical Ingredients	74	Methylphenidate Single-entity Products Extended Release Oral Liquid	Categorical		No
	75	Methylphenidate Single-entity Products Extended Release Transdermal Patch	Categorical		No
	76	Dexmethylphenidate Single-entity Products Immediate Release	Categorical		No
	77	Dexmethylphenidate Single-entity Products Extended Release	Categorical		No
	78	Dexmethylphenidate/Serdexmethylphenidate Immediate Release	Categorical		No
	79	Any ADHD Stimulant API Immediate Release	Categorical		No
	80	Any ADHD Stimulant API Extended Release	Categorical		No
	81	Atomoxetine Immediate Release	Categorical		No
	82	Guanfacine Extended Release	Categorical		No
	83	Viloxazine Extended Release	Categorical		No
	84	Clonidine Extended Release	Categorical		No
	85	Any ADHD Non-Stimulant API Extended Release	Categorical		No
	86	Codeine	Categorical		No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
	87	Fentanyl	Categorical		No
	88	Hydrocodone	Categorical		No
	89	Hydromorphone	Categorical		No
Active Pharmaceutical Ingredients	90	Morphine	Categorical		No
	91	Oxycodone	Categorical		No
	92	Oxymorphone	Categorical		No
	93	Other C-II Opioid Analgesics	Categorical		No
Encounters in Various Care Settings	98	At least One Encounter in the Emergency Department in Year Prior	Categorical		No
	99	At least One Encounter in the Inpatient Care Setting in Year Prior	Categorical		No
	100	At least One Encounter in the Outpatient Care Setting in Year Prior	Categorical		No
Most Frequent Utilization	N/A	Diagnosis 1 (TBD upon MFU results)	MFU	Table 4A	No
	N/A	Diagnosis 2 (TBD upon MFU results)	MFU	Table 4A	No
	N/A	Diagnosis 3 (TBD upon MFU results)	MFU	Table 4A	No
	N/A	Diagnosis 4 (TBD upon MFU results)	MFU	Table 4A	No
	N/A	Diagnosis 5 (TBD upon MFU results)	MFU	Table 4A	No

Appendix G. Specifications Defining Baseline Characteristics Parameters for this Request

Group	Number	Covariate	Continuous or Categorical?	Table Origin	Create subgroup?
Intensity of Health Care Utilization	N/A	Number of Ambulatory visits	Continuous	Yes	No
	N/A	Number of Emergency Department visits	Continuous	Yes	No
	N/A	Number of Non-Acute Institutional Stays	Continuous	Yes	No
	N/A	Number of Inpatient Hospital Stays	Continuous	Yes	No
	N/A	Number of other ambulatory visits (includes other non overnight ambulatory encounters such as home health visits, telemedicine, telephone and email consultations)	Continuous	Yes	No
Intensity of Drug Utilization	N/A	Number of dispensings	Continuous	Yes	No
	N/A	Number of unique generics dispensed	Continuous	Yes	No
	N/A	Number of unique drug classes dispensed	Continuous	Yes	No

¹N/A: Not Applicable

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Antidepressants with Attention-Deficit Hyperactivity Disorder (ADHD) Stimulant	Concurrent antidepressants with ADHD Stimulant medication	1	ADWADHDSTIM	RX	N/A ¹
Benzodiazepines with ADHD Stimulant	Concurrent benzodiazepines with ADHD Stimulant medication	2	BZWADHDSTIM	RX	N/A
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication	3	NBWADHDSTIM	RX	N/A
Antipsychotics with ADHD Stimulant	Concurrent antipsychotics with ADHD Stimulant medication	4	APWADHDSTIM	RX	N/A
Antidepressants with ADHD Non-Stimulant	Concurrent antidepressants with ADHD Non-Stimulant medication	5	ADWADHDNSTM	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Benzodiazepines with ADHD Non-Stimulant	Concurrent benzodiazepines with ADHD Non-Stimulant medication	6	BZWADHDNSTM	RX	N/A
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication	7	NBWADHDNSTM	RX	N/A
Antipsychotics with ADHD Non-Stimulant	Concurrent antipsychotics with ADHD Non-Stimulant medication	8	APWADHDNSTM	RX	N/A
Antidepressants with C-II Opioid Analgesic	Concurrent antidepressants with C-II Opioid Analgesic	9	ADWOPIOIDAG	RX	N/A
Benzodiazepines with C-II Opioid Analgesic	Concurrent benzodiazepines with C-II Opioid Analgesic	10	BZWOPIOIDAG	RX	N/A
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic	11	NBWOPIOIDAG	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Antipsychotics with C-II Opioid Analgesic	Concurrent antipsychotics with C-II Opioid Analgesic	12	APWOPIOIDAG	RX	N/A
Exposures ADHD Stimulant with ADHD Non-Stimulant	Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication	13	EXPSTIMWNST	RX	N/A
Exposures ADHD Stimulant with C-II Opioid Analgesic	Concurrent ADHD Stimulant medication with C-II Opioid Analgesic	14	EXPSTIMWOPI	RX	N/A
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic	15	EXPNSTIMWOP	RX	N/A
Antidepressants with ADHD Stimulant	Last day of concurrency of antidepressants with ADHD Stimulant medication	16	ADASED	DX	AV
Benzodiazepines with ADHD Stimulant	Last day of concurrency of benzodiazepines with ADHD Stimulant medication	17	BZASED	DX	AV

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	Last day of concurrency of nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication	18	NBASED	DX	AV
Antipsychotics with ADHD Stimulant	Last day of concurrency of antipsychotics with ADHD Stimulant medication	19	APASED	DX	AV
Antidepressants with ADHD Non-Stimulant	Last day of concurrency of antidepressants with ADHD Non-Stimulant medication	20	ADNSED	DX	AV
Benzodiazepines with ADHD Non-Stimulant	Last day of concurrency of benzodiazepines with ADHD Non-Stimulant medication	21	BZNSD	DX	AV
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	Last day of concurrency of nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication	22	NBNSED	DX	AV

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Antipsychotics with ADHD Non-Stimulant	Last day of concurrency of antipsychotics with ADHD Non-Stimulant medication	23	APNSED	DX	AV
Antidepressants with C-II Opioid Analgesic	Last day of concurrency of antidepressants with C-II Opioid Analgesic	24	ADOPEd	DX	AV
Benzodiazepines with C-II Opioid Analgesic	Last day of concurrency of benzodiazepines with C-II Opioid Analgesic	25	BZOPED	DX	AV
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	Last day of concurrency of nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic	26	NBOPED	DX	AV
Antipsychotics with C-II Opioid Analgesic	Last day of concurrency of antipsychotics with C-II Opioid Analgesic	27	APOPEd	DX	AV
Exposures ADHD Stimulant with ADHD Non-Stimulant	Last day of concurrency of ADHD Stimulant medication with ADHD Non-Stimulant medication	28	ASNSED	DX	AV

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Exposures ADHD Stimulant with C-II Opioid Analgesic	Last day of concurrency of ADHD Stimulant medication with C-II Opioid Analgesic	29	ASOPED	DX	AV
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	Last day of concurrency of ADHD Non-Stimulant medication with C-II Opioid Analgesic	30	NSOPED	DX	AV
Antidepressants with ADHD Stimulant	Antidepressants with ADHD Stimulant medication for at least 7 consecutive days	31	ADAS7CONCUR	RX	N/A
Benzodiazepines with ADHD Stimulant	Benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	32	BZAS7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	Nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	33	NBAS7CONCUR	RX	N/A
Antipsychotics with ADHD Stimulant	Antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	34	APAS7CONCUR	RX	N/A
Antidepressants with ADHD Non-Stimulant	Antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	35	ADNS7CONCUR	RX	N/A
Benzodiazepines with ADHD Non-Stimulant	Benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	36	BZNS7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	Nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	37	NBNS7CONCUR	RX	N/A
Antipsychotics with ADHD Non-Stimulant	Antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	38	APNS7CONCUR	RX	N/A
Antidepressants with C-II Opioid Analgesic	Antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	39	ADOP7CONCUR	RX	N/A
Benzodiazepines with C-II Opioid Analgesic	Benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	40	BZOP7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	Nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	41	NBOP7CONCUR	RX	N/A
Antipsychotics with C-II Opioid Analgesic	Antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	42	APOP7CONCUR	RX	N/A
Exposures ADHD Stimulant with ADHD Non-Stimulant	ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	43	STNS7CONCUR	RX	N/A
Exposures ADHD Stimulant with C-II Opioid Analgesic	ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	44	STOP7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	45	NSOP7CONCUR	RX	N/A
Exposures all Opioid Analgesic with ADHD Stimulant	Concurrent all Opioid Analgesic with ADHD Stimulant medication	46	EXPSTIMW2PI	RX	N/A
Exposures all Opioid Analgesic with ADHD Non-Stimulant	Concurrent all Opioid Analgesic with ADHD Non-Stimulant medication	47	EXPNSTIMW2P	RX	N/A
Exposures all Opioid Analgesic with ADHD Stimulant	Last day of concurrency of all Opioid Analgesic with ADHD Stimulant medication	48	AS2PED	DX	AV
Exposures all Opioid Analgesic with ADHD Non-Stimulant	Last day of concurrency of all Opioid Analgesic with ADHD Non-Stimulant medication	49	NS2PED	DX	AV
Exposures all Opioid Analgesic with ADHD Stimulant	All Opioid Analgesic with ADHD Stimulant medication for at least 7 consecutive days	50	ST2P7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combination Baseline Characteristics Parameters for this Request

Combination Group	Combination Description	Combination Order	Combination Code	Combination Code Behavior	Combination Encounter Type
Exposures all Opioid Analgesic with ADHD Non-Stimulant	All Opioid Analgesic with ADHD Non-Stimulant medication with for at least 7 consecutive days	51	NS2P7CONCUR	RX	N/A

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Antidepressants with ADHD Stimulant	N/A	antidepressant adhdstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Benzodiazepines with ADHD Stimulant	N/A	benzodiazepine adhdstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	N/A	nonbenzodiazepine adhdstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Antipsychotics with ADHD Stimulant	N/A	antipsychotic adhdstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Antidepressants with ADHD Non-Stimulant	N/A	antidepressant adhdnonstimulant	1 2	0 0	N/A N/A	0 0	N/A 0

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Benzodiazepines with ADHD Non-Stimulant	N/A	benzodiazepine adhdnonstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	N/A	nonbenzodiazepine adhdnonstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Antipsychotics with ADHD Non-Stimulant	N/A	antipsychotic adhdnonstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Antidepressants with C-II Opioid Analgesic	N/A	antidepressant opioid	1 2	0 0	N/A N/A	0 0	N/A 0
Benzodiazepines with C-II Opioid Analgesic	N/A	benzodiazepine opioid	1 2	0 0	N/A N/A	0 0	N/A 0
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	N/A	nonbenzodiazepine opioid	1 2	0 0	N/A N/A	0 0	N/A 0

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Antipsychotics with C-II Opioid Analgesic	N/A	antipsychotic opioid	1 2	0 0	N/A N/A	0 0	N/A 0
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A	adhdstimulant adhdnonstimulant	1 2	0 0	N/A N/A	0 0	N/A 0
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A	adhdstimulant opioid	1 2	0 0	N/A N/A	0 0	N/A 0
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A	adhdnontimulant opioid	1 2	0 0	N/A N/A	0 0	N/A 0
Antidepressants with ADHD Stimulant	X	adhdstimantidepressant (ComboCode ADWADHDSTIM)	1	0	N/A	0	N/A
Benzodiazepines with ADHD Stimulant	X	adhdstimbenzodiazepine (ComboCode BZWADHDSTIM)	1	0	N/A	0	N/A

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	wp085 and wp087 will be distributed in three waves: 1. Distribution 1 (wp085 v04) – overall cohorts (with group names containing “_5plus”) from r01 (overall study period) will be distributed to DPs. Data will be frozen. 2. Distribution 2 (wp085 v05) – all cohorts from r01-r04 (all type 5 runs) will be distributed to DPs. Package will point to data frozen from v01. Data in v02 will not be frozen. 3. Distribution 3 (wp087 v01) – all cohorts (r01-r07) will be distributed to DPs. Package will point to data frozen from v01. Data in v03 will not be frozen.						N/A
Antipsychotics with ADHD Stimulant	X	adhdstimantipsychotic (ComboCode APWADHDSTIM)	1	0	N/A	0	N/A
Antidepressants with ADHD Non-Stimulant	X	adhdnonstimantidepressant (ComboCode ADWADHDNSTM)	1	0	N/A	0	N/A
Benzodiazepines with ADHD Non-Stimulant	X	adhdnonstimbenzodiazepine (ComboCode BZWADHDNSTM)	1	0	N/A	0	N/A
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	X	adhdnonstimnonbenzodiazepine (ComboCode NBWADHDNSTM)	1	0	N/A	0	N/A

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Antipsychotics with ADHD Non-Stimulant	X	adhdnonstimantipsychotic (ComboCode APWADHDNSTM)	1	0	N/A	0	N/A
Antidepressants with C-II Opioid Analgesic	X	opioidantidepressant (ComboCode ADWOPIOIDAG)	1	0	N/A	0	N/A
Benzodiazepines with C-II Opioid Analgesic	X	opioidbenzodiazepine (ComboCode BZWOPIOIDAG)	1	0	N/A	0	N/A
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	X	opioidnonbenzodiazepine (ComboCode NBWOPIOIDAG)	1	0	N/A	0	N/A
Antipsychotics with C-II Opioid Analgesic	X	opioidantipsychotic (ComboCode APWOPIOIDAG)	1	0	N/A	0	N/A
Exposures ADHD Stimulant with ADHD Non-Stimulant	X	adhdstimadhdnonstim (ComboCode EXPSTIMWNST)	1	0	N/A	0	N/A

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Exposures ADHD Stimulant with C-II Opioid Analgesic	X	adhdstimopioid (ComboCode EXPSTIMWOPI)	1	0	N/A	0	N/A
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	X	adhdnonstimopioid (ComboCode EXPNSTIMWOP)	1	0	N/A	0	N/A
Antidepressants with ADHD Stimulant	N/A	adhdstimantidepressant (ComboCode ADWADHDSTIM) edadhdstimantidepressant (ComboCode ADASED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Benzodiazepines with ADHD Stimulant	N/A	adhdstimbenzodiazepine (ComboCode BZWADHDSTIM) edadhdstimbenzodiazepine (ComboCode BZASED)	1 2	0 0	N/A N/A	0 1	N/A 0,5

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	N/A	adhdstimnonbenzodiazepine (ComboCode NBWADHDSTIM) edadhdstimnonbenzodiazepine (ComboCode NBASED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Antipsychotics with ADHD Stimulant	N/A	adhdstimantipsychotic (ComboCode APWADHDSTIM) edadhdstimantipsychotic (ComboCode APASED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Antidepressants with ADHD Non-Stimulant	N/A	adhdnonstimantidepressant (ComboCode ADWADHDNSTM) edadhdnonstimantidepressant (ComboCode ADNSED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Benzodiazepines with ADHD Non-Stimulant	N/A	adhdnonstimbenzodiazepine (ComboCode BZWADHDNSTM) edadhdnonstimbenzodiazepine (ComboCode BZNSED)	1 2	0 0	N/A N/A	0 1	N/A 0,5

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	N/A	adhdnonstimnonbenzodiazepine (ComboCode NBWADHDNSTM) edadhdnonstimnonbenzodiazepine (ComboCode NBNSD)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Antipsychotics with ADHD Non-Stimulant	N/A	adhdnonstimantipsychotic (ComboCode APWADHDNSTM) edadhdnonstimantipsychotic (ComboCode APNSD)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Antidepressants with C-II Opioid Analgesic	N/A	opioidantidepressant (ComboCode ADWOPIOIDAG) edopioidantidepressant (ComboCode ADOPED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Benzodiazepines with C-II Opioid Analgesic	N/A	opioidbenzodiazepine (ComboCode BZWOPIOIDAG) edopioidbenzodiazepine (ComboCode BZOPED)	1 2	0 0	N/A N/A	0 1	N/A 0,5

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	N/A	opioi nonbenzodiazepine (ComboCode NBWOPIOIDAG)	1	0	N/A	0	N/A 0,5
		edopioi nonbenzodiazepine (ComboCode NBOPED)	2	0	N/A	1	
Antipsychotics with C-II Opioid Analgesic	N/A	opioi antipsychotic (ComboCode APWOPIOIDAG)	1	0	N/A	0	N/A 0,5
		edopioi antipsychotic (ComboCode APOPED)	2	0	N/A	1	
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A	adhd stimadhd nonstim (ComboCode EXPSTIMWNST)	1	0	N/A	0	N/A 0,5
		edadhd stimadhd nonstim (ComboCode ASNSD)	2	0	N/A	1	
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A	adhd stimopioid (ComboCode EXPSTIMWOPI)	1	0	N/A	0	N/A 0,5
		edadhd stimopioid (ComboCode ASOPED)	2	0	N/A	1	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A	adhdnonstimopioid (ComboCode EXPNSTIMWOP) edadhdnonstimopioid (ComboCode NSOPED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Exposures all Opioid Analgesic with ADHD Stimulant	N/A	adhdstimulant opioidall	1 2	0 0	N/A N/A	0 0	N/A 0
Exposures all Opioid Analgesic with ADHD Non-Stimulant	N/A	adhdnontimulant opioidall	1 2	0 0	N/A N/A	0 0	N/A 0
Exposures all Opioid Analgesic with ADHD Stimulant	X	adhdstimopioidall (ComboCode EXPSTIMW2PI)	1	0	N/A	0	N/A
Exposures all Opioid Analgesic with ADHD Non-Stimulant	X	adhdnonstimopioidall (ComboCode EXPNSTIMW2P)	1	0	N/A	0	N/A
Exposures all Opioid Analgesic with ADHD Stimulant	N/A	adhdstimopioidall (ComboCode EXPSTIMW2PI) edadhdstimopioidall (ComboCode AS2PED)	1 2	0 0	N/A N/A	0 1	N/A 0,5

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Combination Principal Diagnosis	Raw Group	Raw Order	Raw Episode Type	Episode Gap	Raw Record Exclusion	Raw Record Window From Start Date
Exposures all Opioid Analgesic with ADHD Non-Stimulant	N/A	adhdnonstimopioidall (ComboCode EXPNSTIMW2P)	1	0	N/A	0	N/A 0,5
		edadhdnonstimopioidall (ComboCode NS2PED)	2	0	N/A	1	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Antidepressants with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	Create episode of concurrency (with length from minimum of overlap to maximum of overlap period)
Benzodiazepines with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Antipsychotics with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Antidepressants with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Benzodiazepines with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Antipsychotics with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Antidepressants with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Benzodiazepines with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Antipsychotics with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Antidepressants with ADHD Stimulant	N/A	N/A	EDATEB	EDATEB	Create a 1-day instance (DX code) on the last day of the previously created period of overlap combo
Benzodiazepines with ADHD Stimulant	N/A	N/A	EDATEB	EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	N/A	N/A	EDATEB	EDATEB	
Antipsychotics with ADHD Stimulant	N/A	N/A	EDATEB	EDATEB	
Antidepressants with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	
Benzodiazepines with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Antipsychotics with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	
Antidepressants with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Benzodiazepines with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Antipsychotics with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date Type	Raw Record End Date Type	Note
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A	N/A	EDATEB	EDATEB	
Antidepressants with ADHD Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	Check within period of concurrency (first set of combos) for presence of the end date of concurrency (second set of combos). If this END date is NOT present within the first six days (including Day 0 of concurrency, this would be range (0,5)) from the concurrency START date, then the episode must logically 7 days or longer.
Benzodiazepines with ADHD Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Antipsychotics with ADHD Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Antidepressants with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Benzodiazepines with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Antipsychotics with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Antidepressants with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Benzodiazepines with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Antipsychotics with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

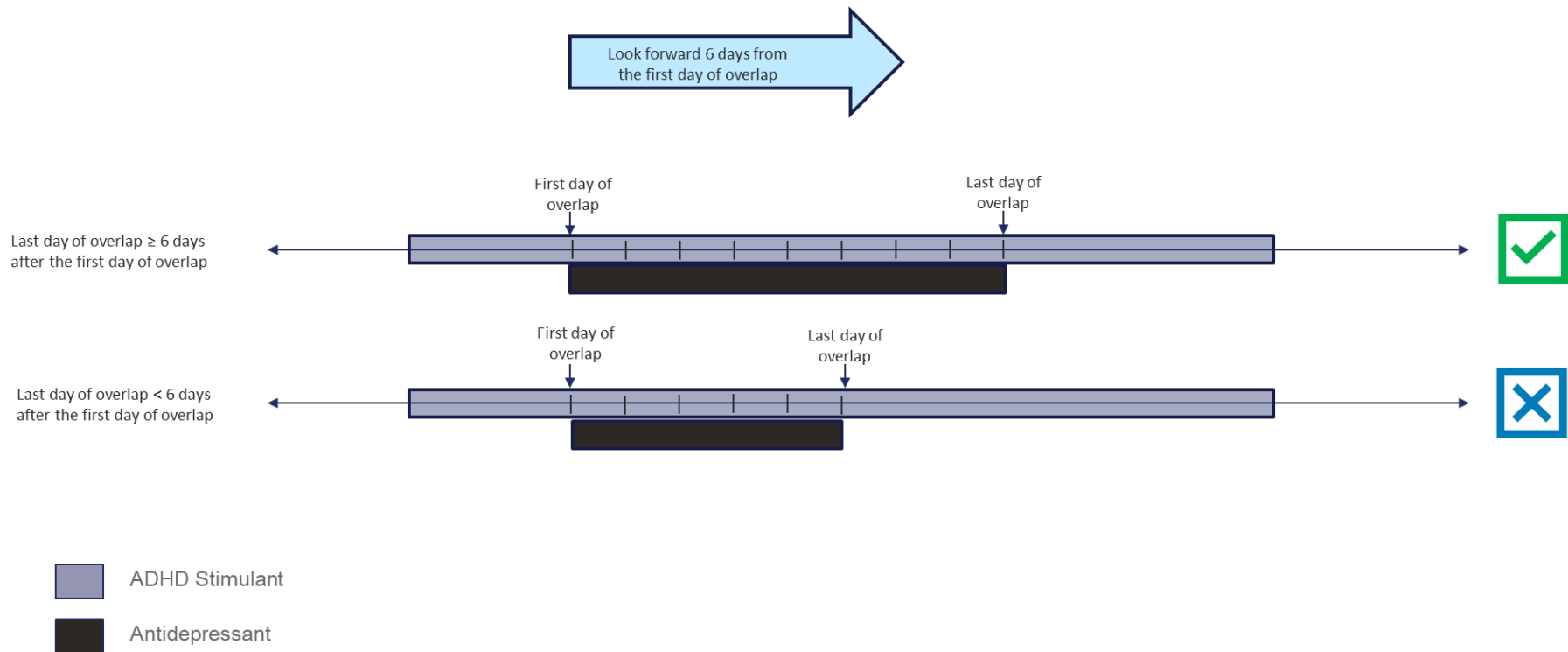
Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date Type	Raw Record End Date Type	Note
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Exposures all Opioid Analgesic with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Exposures all Opioid Analgesic with ADHD Non-Stimulant	N/A 0	N/A N/A	N/A MINOVER	N/A MAXOVER	
Exposures all Opioid Analgesic with ADHD Stimulant	N/A	N/A	EDATEB	EDATEB	
Exposures all Opioid Analgesic with ADHD Non-Stimulant	N/A	N/A	EDATEB	EDATEB	
Exposures all Opioid Analgesic with ADHD Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request

Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date Type	Raw Record End Date Type	Note
Exposures all Opioid Analgesic with ADHD Non-Stimulant	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	

¹N/A: Not Applicable

Appendix G.1 Specifications Defining Combo Baseline Characteristics Parameters for this Request (Continued)



Appendix H. Specifications Defining Medical Utilization and Comorbidity Score Parameters for this Request

Utilization

Medical Utilization Evaluation Period Start	Medical Utilization Evaluation Period End	Medical Visit Care Settings	Drug Utilization Evaluation Period Start	Drug Utilization Evaluation Period End
-365	0	*Inpatient hospital stay; *Non-acute institutional stay; *Emergency department encounter; *Ambulatory visit; *Other ambulatory visit;	-365	0

Risk Score

Risk Score	Evaluation Period Start	Evaluation Period End	Anchor Date to Start Risk Score Evaluation	Anchor Date to End Risk Score Evaluation	Risk Score Categories
Combined comorbidity score	-365	0	<i>Only applies to Type 4 queries</i> *Anchor on estimated date of pregnancy start. *Anchor on date of pregnancy outcome.	<i>Only applies to Type 4 queries</i> *Anchor on estimated date of pregnancy start. *Anchor on date of pregnancy outcome.	<=0 1-2 3-4 5+

Appendix I. Specifications Defining Most Frequent Utilization (MFU) Parameters for this Request

Most Frequent Utilization

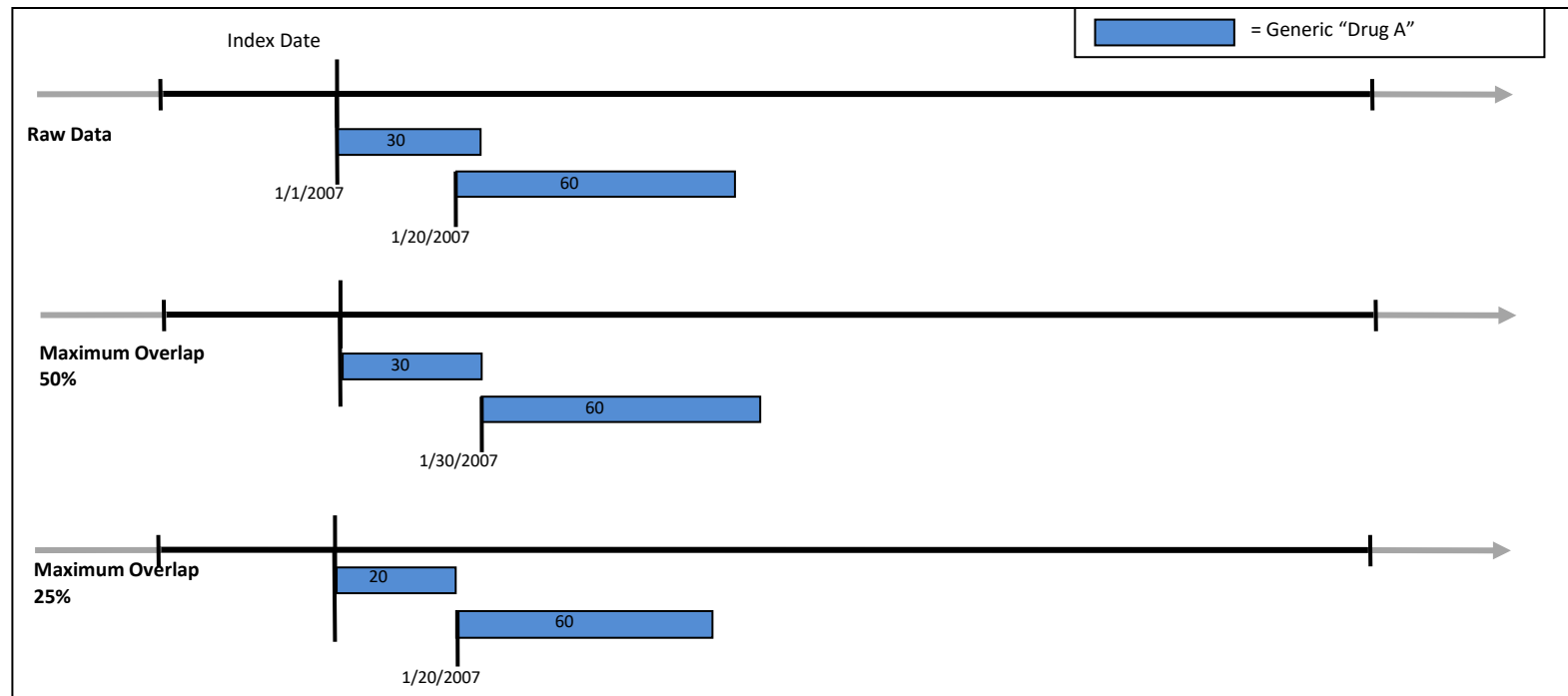
Number of Codes to Return	MFU Evaluation Period Start	MFU Evaluation Period End	Code Category	Code Type	Encounter Caresetting	Principal Encounter	Counting Method
20	-30	0	Diagnosis codes	ICD-10	Any care setting	Any	The MFU output is sorted by patient counts

Appendix J. Specifications Defining Stockpiling Parameters Used for this Request

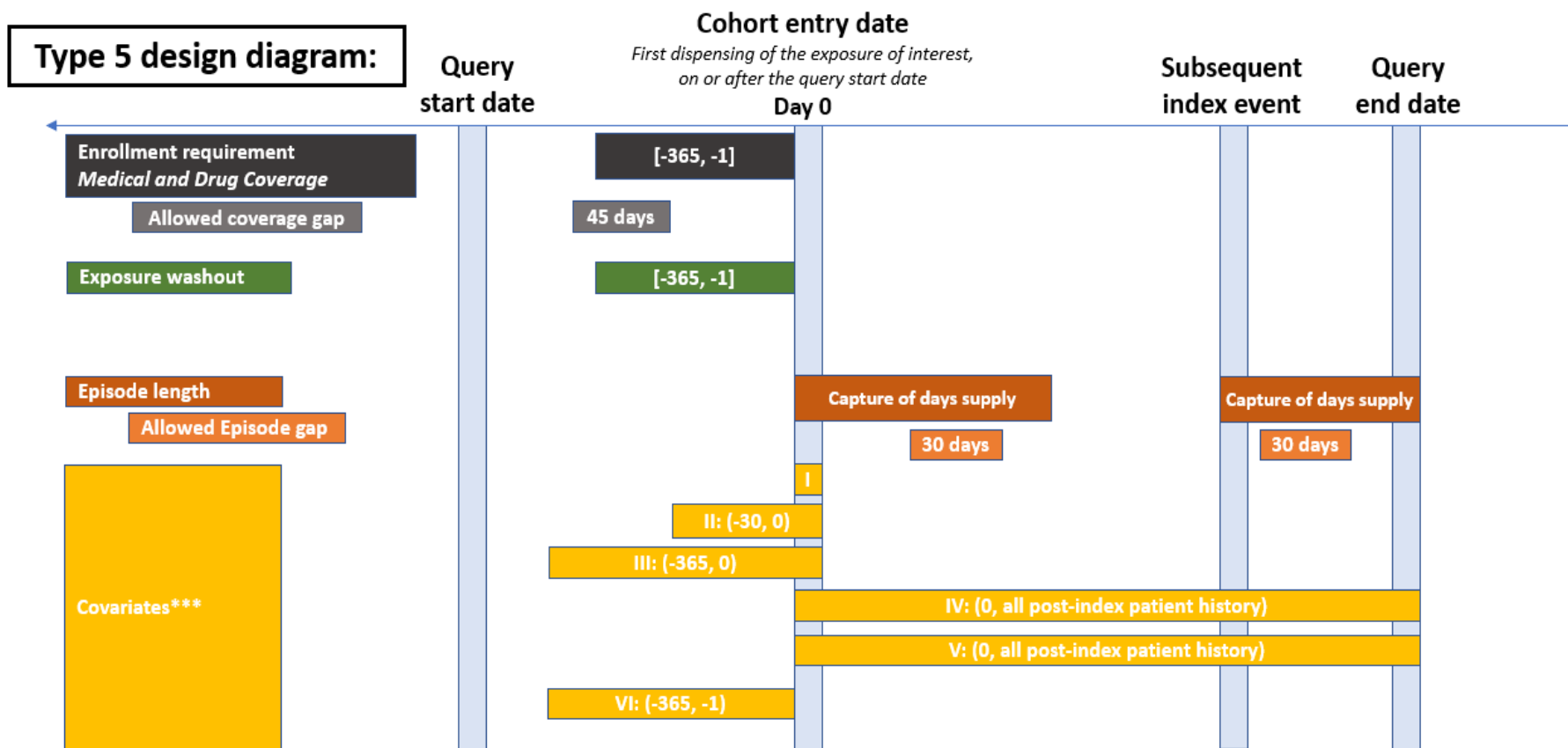
Stockpiling					
Stockpiling Group	Same Day Dispensing Processing for Days Supplied	Same Day Dispensing Processing for Amount Supplied	Range of Allowable Days Supplied Values	Range of Allowable Amount Supplied Values	Overlap Percentage*
Use drug class for the stockpiling except when calculating average daily dose by active ingredient. For calculating average daily dose by active ingredient, use generic name for stockpiling	*Uses minimum	*Adds all	7 days - HIGH	Default: Does not consider days supplied values of 0 or less	Default: No truncation will occur and any overlap of supply between dispensing will be corrected by pushing overlapping days supplied forward

**See below figure*

Appendix J. Specifications Defining Stockpiling Parameters Used for this Request



Appendix K. Design Diagram for this Request



Appendix K. Design Diagram for this Request

***Covariates:

Window I: Age, Age groups (5-12 13-17 18-25 26-29 30-39 40-49 50-64 65+), Calendar year, Race, Sex, Census Bureau region

Window II: Most Frequent Utilization (top 5 codes after data aggregation); Attention-Deficit/Hyperactivity Disorder (ADHD); Narcolepsy; Binge-Eating Disorder; Conduct or adjustment disorders or other related disorders; No diagnosis of ADHD, Narcolepsy, or Binge-Eating Disorder; No diagnosis of ADHD, Narcolepsy, Binge-Eating Disorder, and presence of a diagnosis of conduct or adjustment disorder

Window III: Charlson/Elixhauser Combined Comorbidity Index, ADHD Stimulant Medication; ADHD Non-Stimulant Medication; Opioid Analgesic; Medication for Opioid Use Disorder; Antidepressant Medication; Anxiolytic or Sedative/Hypnotic Medications; Antipsychotic Medication; Mood Stabilizers; Cancer; Non-Cancer (Chronic Pain-Related Conditions); Attention-Deficit/Hyperactivity Disorder; Narcolepsy; Binge-Eating Disorder; No diagnosis of ADHD, Narcolepsy, or Binge-Eating Disorder; Hypertension; Coronary artery disease; Cardiac arrhythmia; Cardiomyopathy; Cardiac structural abnormality; All other diseases of the circulatory system; Epilepsy or recurrent seizures; Other seizure or convulsions; Depression; Anxiety; Bipolar Disorder; Sleep Disorder; Psychotic Disorder; Post-Traumatic Stress Disorder (PTSD); Manic Episode; Autistic Disorder; Any Substance-Related Disorders; Opioid-Related Disorders; Stimulant-Related Disorders; Cocaine-Related Disorders; Other Stimulant-Related Disorders; Alcohol-Related Disorders; Cannabis-Related Disorders; Tobacco-Related Disorders; Current Nicotine Use; Unintentional or Undetermined Poisoning by Broad Category; Unintentional or Undetermined Poisoning by Broad Category; Opioid Poisoning, Unintentional or Undetermined Intent; Stimulant Poisoning, Unintentional or Undetermined Intent; Intentional Poisoning by Broad Category; Healthcare and Drug utilization Characteristics

Window IV: Concurrent occurrence of for at least 7 consecutive days: Antidepressants with ADHD Stimulant medication; Benzodiazepines with ADHD Stimulant medication; Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Stimulant medication; Antipsychotics with ADHD Stimulant medication; Antidepressants with ADHD Non-Stimulant medication; Benzodiazepines with ADHD Non-Stimulant medication; Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with ADHD Non-Stimulant medication; Antipsychotics with ADHD Non-Stimulant medication; Antidepressants with Schedule II (C-II) Opioid Analgesic; Benzodiazepines with C-II Opioid Analgesic; Non-Benzodiazepine Anxiolytics or Sedative/Hypnotics with C-II Opioid Analgesic; Antipsychotics with C-II Opioid Analgesic; ADHD Stimulant medication with ADHD Non-Stimulant medication; ADHD Stimulant medication with C-II Opioid Analgesic; ADHD Non-Stimulant medication with C-II Opioid Analgesic; All Opioid Analgesic with ADHD Stimulant medication; All Opioid Analgesic with ADHD Non-Stimulant medication

Window V: Amphetamine Single-Entity Products, Immediate Release; Amphetamine Single-entity Products, Extended Release, Oral Solid; Amphetamine Single-entity Products, Extended Release, Oral Liquid; Dextroamphetamine Single-entity Products, Immediate Release; Dextroamphetamine Single-entity Products, Extended Release; Amphetamine/Dextroamphetamine Combination Products, Immediate Release; Amphetamine/Dextroamphetamine Combination Products, Extended Release; Lisdexamfetamine, Extended Release; Methamphetamine Single-entity Products, Immediate Release; Methylphenidate Single-entity Products, Immediate Release; Methylphenidate Single-entity Products, Extended Release, Oral Solid; Methylphenidate Single-entity Products, Extended Release, Oral Liquid; Methylphenidate Single-entity Products, Extended Release, Transdermal Patch; Dexmethylphenidate Single-entity Products, Immediate Release; Dexmethylphenidate Single-entity Products, Extended Release; Dexmethylphenidate/Serdexmethylphenidate, Immediate Release; Any ADHD Stimulant Active Pharmaceutical Ingredient (API), Immediate Release; Any ADHD Stimulant API, Extended Release; Atomoxetine, Immediate Release; Guanfacine, Extended Release; Viloxazine, Extended Release; Clonidine, Extended Release; Any ADHD Non-Stimulant API, Extended Release; Codeine; Fentanyl; Hydrocodone; Hydromorphone; Morphine; Oxycodone; Oxymorphone; Other C-II Opioid Analgesics

Window VI: At least one encounter in the Emergency Department (ED*); At least one encounter in the Inpatient care setting (IP*); At least one encounter in the Outpatient (AV*, OA*) care setting