

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).

If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at info@sentinelssystem.org.

Overview for Request: cder_mpl1p_wp085 (Report 1 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 one out of four, and specifically 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 three represents the pandemic query period: April 1, 2020 - March 31, 2022. 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 query included both Type 2 and Type 5 analyses 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, dextmethylphenidate, 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 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 1 of 4)

Time to end of observable data: For all cohorts, we summarized the time to end of observable data (including time between episodes). The follow-up began on the index dispensing and continued until the first occurrence of any of the following: 1) disenrollment, 2) death, 3) the end of the data provided by each Data Partner, or 4) the end of the query period. We used Type 2 analysis in the Query Request Package (QRP) documentation to produce these results. This is the only Type 2 component of the analyses included in this report. The first episodes of the Type 2 cohorts were matched to those from the corresponding Type 5 runs.

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 design diagrams.

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, it is possible that there may be misclassification. Therefore, 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>).

Table of Contents

<u>Glossary (CIDA)</u>	List of Terms to Define the Cohort Identification and Descriptive Analysis (CIDA) Found in this Report
<u>Table 1a</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1b</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1c</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1d</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1e</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1f</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1g</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1h</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1i</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1j</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1k</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1l</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1m</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1n</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1o</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1p</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Table of Contents

<u>Table 1q</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1r</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1s</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1t</u>	Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 1u</u>	Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 2a</u>	Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 2b</u>	Continuous Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 3a</u>	Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 3b</u>	Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 4a</u>	Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 4b</u>	Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 5</u>	Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 6</u>	Summary of Reasons First Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 7</u>	Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Table 8</u>	Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023
<u>Appendix A</u>	Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (May 10, 2024)
<u>Appendix B</u>	List of States and U.S. Territories per Census Bureau (CB) Region
<u>Appendix C</u>	List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request
<u>Appendix D</u>	List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request

Table of Contents

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

Appendix F Specifications Defining Parameters for this Request

Appendix G Specifications Defining Baseline Characteristics Parameters for this Request

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

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

Appendix I Specifications Defining Most Frequent Utilization Parameters for this Request

Appendix J Specifications Defining Stockpiling Parameters Used for this Request

Appendix K Design Diagrams for this Request

**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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5+ Years		
Patient Characteristics	Number	
Unique patients	1,415,727	
Healthcare Payor Status	Number	Percent
Commercial payor patients	1,216,514	85.9%
Medicare Members	199,213	14.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	33.0	15.8
Age	Number	Percent
5-12 years	223,116	15.8%
13-17 years	154,747	10.9%
18-25 years	250,921	17.7%
26-29 years	94,562	6.7%
30-39 years	241,292	17.0%
40-49 years	169,698	12.0%
50-64 years	148,379	10.5%
≥ 65 years	133,012	9.4%
Sex		
Female	737,603	52.1%
Male	678,124	47.9%
Race ¹		
American Indian or Alaska Native	1,787	0.1%
Asian	7,638	0.5%
Black or African American	18,703	1.3%
Multi-racial	23,093	1.6%
Native Hawaiian or Other Pacific Islander	430	0.0%
Unknown	1,031,121	72.8%
White	332,955	23.5%
Hispanic origin		
Yes	17,145	1.2%
No	254,054	17.9%
Unknown	1,144,528	80.8%
Year		
2017	221,698	15.7%
2018	214,574	15.2%
2019	210,871	14.9%
2020	199,292	14.1%
2021	245,564	17.3%
2022	258,750	18.3%
2023	64,978	4.6%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5+ Years		
Demographic Characteristics	Number/Mean	Percent/Standard Deviation ²
Census Bureau Region ³		
Invalid	13,795	1.0%
Midwest	332,774	23.5%
Northeast	198,393	14.0%
South	594,929	42.0%
West	274,350	19.4%
Missing	1,238	0.1%
Other	248	0.0%
Health Characteristics	Number	Percent
Combined comorbidity score ⁴	1.0	1.8
Combined comorbidity score categories		
<=0	751,232	53.1%
1-2	516,638	36.5%
3-4	78,371	5.5%
5+	69,486	4.9%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	1,415,727	100.0%
ADHD Non-Stimulant Medication on index date or year prior	78,599	5.6%
Schedule II (C-II) Analgesic on index date or year prior	234,416	16.6%
Medication for Opioid-Related Disorders on index date or year prior	13,566	1.0%
Antidepressant Medication on index date or year prior	625,502	44.2%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	372,575	26.3%
Antipsychotic Medication on index date or year prior	151,956	10.7%
Mood Stabilizers on index date or year prior	102,283	7.2%
Cancer on index date or year prior	47,408	3.3%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	560,652	39.6%
ADHD on index date or year prior	824,673	58.3%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	53,495	3.8%
Narcolepsy on index date or year prior	12,665	0.9%
Binge-Eating Disorder on index date or year prior	20,768	1.5%
ADHD on index date or 30 days Prior	718,705	50.8%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	26,841	1.9%
Narcolepsy on index date or 30 days Prior	7,879	0.6%
Binge-Eating Disorder on index date or 30 days Prior	17,692	1.2%
Hypertension on index date or year prior	240,178	17.0%
Coronary artery disease on index date or year prior	59,202	4.2%
Cardiac arrhythmia on index date or year prior	92,930	6.6%
Cardiomyopathy on index date or year prior	9,976	0.7%
Cardiac structural abnormality on index date or year prior	8,876	0.6%
All other diseases of the circulatory system on index date or year prior	66,947	4.7%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5+ Years		
Health Characteristics	Number	Percent
Epilepsy or recurrent seizures on index date or year prior	22,788	1.6%
Other seizure or convulsions on index date or year prior	23,605	1.7%
Depression on index date or year prior	450,816	31.8%
Anxiety on index date or year prior	583,320	41.2%
Bipolar Disorder on index date or year prior	89,889	6.3%
Sleep Disorder on index date or year prior	282,699	20.0%
Psychotic Disorder on index date or year prior	27,935	2.0%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	71,317	5.0%
Manic Episode on index date or year prior	2,309	0.2%
Autistic Disorder on index date or year prior	32,837	2.3%
Any Substance-Related Disorders on index date or year prior	212,587	15.0%
Opioid-Related Disorders on index date or year prior	40,296	2.8%
Stimulant-Related Disorders on index date or year prior	14,215	1.0%
Cocaine-Related Disorders on index date or year prior	6,543	0.5%
Other Stimulant-Related Disorders on index date or year prior	9,409	0.7%
Alcohol-Related Disorders on index date or year prior	40,395	2.9%
Cannabis-Related Disorders on index date or year prior	28,993	2.0%
Tobacco-Related Disorders on index date or year prior	154,095	10.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	34,573	2.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	3,102	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,834	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	452	0.0%
Intentional Poisoning by Broad Category on index date or year prior	6,724	0.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	565,047	39.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	675,867	47.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	9,411	0.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	5,106	0.4%
At least One Encounter in the Emergency Department in Year Prior	301,663	21.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	113,217	8.0%
At least One Encounter in the Outpatient Care Setting in Year Prior	1,369,129	96.7%

Table 1a. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5+ Years		
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	666,634	47.1%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	222,308	15.7%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	134,071	9.5%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	161,309	11.4%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	83,156	5.9%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	123,530	8.7%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	93,516	6.6%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	3,853	0.3%
Amphetamine Single-entity Products Extended Release Oral Solid	6,438	0.5%
Amphetamine Single-entity Products Extended Release Oral Liquid	2,883	0.2%
Dextroamphetamine Single-entity Products Immediate Release	19,479	1.4%
Dextroamphetamine Single-entity Products Extended Release	12,514	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	538,922	38.1%
Amphetamine/Dextroamphetamine Combination Products Extended Release	452,014	31.9%
Lisdexamfetamine Extended Release	346,491	24.5%
Methamphetamine Single-entity Products Immediate Release	228	0.0%
Methylphenidate Single-entity Products Immediate Release	260,607	18.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	303,705	21.5%
Methylphenidate Single-entity Products Extended Release Oral Liquid	7,681	0.5%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	3,147	0.2%
Dexmethylphenidate Single-entity Products Immediate Release	41,062	2.9%
Dexmethylphenidate Single-entity Products Extended Release	91,796	6.5%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	4,297	0.3%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	799,385	56.5%
Any ADHD Stimulant API Extended Release	976,631	69.0%
Atomoxetine Immediate Release	57,231	4.0%
Guanfacine Extended Release	47,975	3.4%
Viloxazine Extended Release	3,551	0.3%
Clonidine Extended Release	6,630	0.5%
Any ADHD Non-Stimulant API Extended Release	55,671	3.9%
Codeine	205	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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Fentanyl	7,369	0.5%
Hydrocodone	201,860	14.3%
Hydromorphone	13,742	1.0%
Morphine	15,862	1.1%
Oxycodone	155,230	11.0%
Oxymorphone	675	0.0%
Other C-II Opioid Analgesics	6,060	0.4%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	16.1	18.9
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	4.0	10.6
Mean number of filled prescriptions	20.3	24.5
Mean number of generics dispensed	7.1	5.6
Mean number of unique drug classes dispensed	6.6	4.9
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	303,023	21.4%
Diagnosis 2: F902 — Attention--Deficit Hyperactivity Disorder Combined Type	232,630	16.4%
Diagnosis 3: F411 — Generalized Anxiety Disorder	197,689	14.0%
Diagnosis 4: F909 — Attention--Deficit Hyperactivity Disorder Unspecified	188,404	13.3%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	143,925	10.2%

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

²Value represents the standard deviation where no % follows the value.

³Due 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.

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Patient Characteristics	Number	
Unique patients	509,085	
Healthcare Payor Status	Number	Percent
Commercial payor patients	333,179	65.5%
Medicare Members	175,906	34.6%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	42.1	18.2
Age	Number	Percent
5-12 years	79,467	15.6%
13-17 years	49,091	9.6%
18-25 years	56,724	11.1%
26-29 years	20,314	4.0%
30-39 years	58,643	11.5%
40-49 years	49,398	9.7%
50-64 years	63,814	12.5%
≥ 65 years	131,634	25.9%
Sex		
Female	270,788	53.2%
Male	238,297	46.8%
Race ¹		
American Indian or Alaska Native	1,616	0.3%
Asian	5,676	1.1%
Black or African American	39,028	7.7%
Multi-racial	6,283	1.2%
Native Hawaiian or Other Pacific Islander	234	0.0%
Unknown	277,849	54.6%
White	178,399	35.0%
Hispanic origin		
Yes	9,754	1.9%
No	194,467	38.2%
Unknown	304,864	59.9%
Year		
2017	71,895	14.1%
2018	74,411	14.6%
2019	77,003	15.1%
2020	71,680	14.1%
2021	86,733	17.0%
2022	97,967	19.2%
2023	29,396	5.8%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Demographic Characteristics	Number/Mean	Percent/Standard Deviation ²
Census Bureau Region ³		
Invalid	3,305	0.7%
Midwest	119,663	23.5%
Northeast	70,150	13.8%
South	220,133	43.2%
West	95,373	18.7%
Missing	301	0.1%
Other	160	0.0%
Health Characteristics	Number	Percent
Combined comorbidity score ⁴	2.4	2.8
Combined comorbidity score categories		
<=0	176,017	34.6%
1-2	180,608	35.5%
3-4	54,766	10.8%
5+	97,694	19.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	139,941	27.5%
ADHD Non-Stimulant Medication on index date or year prior	509,085	100.0%
Schedule II (C-II) Analgesic on index date or year prior	108,413	21.3%
Medication for Opioid-Related Disorders on index date or year prior	8,421	1.7%
Antidepressant Medication on index date or year prior	259,309	50.9%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	164,567	32.3%
Antipsychotic Medication on index date or year prior	90,580	17.8%
Mood Stabilizers on index date or year prior	56,373	11.1%
Cancer on index date or year prior	25,126	4.9%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	265,952	52.2%
ADHD on index date or year prior	224,219	44.0%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	35,616	7.0%
Narcolepsy on index date or year prior	1,424	0.3%
Binge-Eating Disorder on index date or year prior	1,920	0.4%
ADHD on index date or 30 days Prior	182,452	35.8%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	18,308	3.6%
Narcolepsy on index date or 30 days Prior	543	0.1%
Binge-Eating Disorder on index date or 30 days Prior	998	0.2%
Hypertension on index date or year prior	209,276	41.1%
Coronary artery disease on index date or year prior	87,585	17.2%
Cardiac arrhythmia on index date or year prior	94,034	18.5%
Cardiomyopathy on index date or year prior	15,541	3.1%
Cardiac structural abnormality on index date or year prior	5,796	1.1%
All other diseases of the circulatory system on index date or year prior	62,824	12.3%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Health Characteristics	Number	Percent
Epilepsy or recurrent seizures on index date or year prior	20,701	4.1%
Other seizure or convulsions on index date or year prior	22,135	4.3%
Depression on index date or year prior	185,387	36.4%
Anxiety on index date or year prior	245,594	48.2%
Bipolar Disorder on index date or year prior	50,169	9.9%
Sleep Disorder on index date or year prior	151,323	29.7%
Psychotic Disorder on index date or year prior	31,384	6.2%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	36,012	7.1%
Manic Episode on index date or year prior	1,880	0.4%
Autistic Disorder on index date or year prior	22,815	4.5%
Any Substance-Related Disorders on index date or year prior	139,846	27.5%
Opioid-Related Disorders on index date or year prior	32,295	6.3%
Stimulant-Related Disorders on index date or year prior	17,115	3.4%
Cocaine-Related Disorders on index date or year prior	8,041	1.6%
Other Stimulant-Related Disorders on index date or year prior	11,993	2.4%
Alcohol-Related Disorders on index date or year prior	29,805	5.9%
Cannabis-Related Disorders on index date or year prior	23,552	4.6%
Tobacco-Related Disorders on index date or year prior	106,322	20.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	24,144	4.7%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	3,493	0.7%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	2,233	0.4%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	681	0.1%
Intentional Poisoning by Broad Category on index date or year prior	5,584	1.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	283,401	55.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	325,878	64.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	9,789	1.9%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	5,721	1.1%
At least One Encounter in the Emergency Department in Year Prior	181,383	35.6%
At least One Encounter in the Inpatient Care Setting in Year Prior	115,163	22.6%
At least One Encounter in the Outpatient Care Setting in Year Prior	501,965	98.6%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	255,348	50.2%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	76,443	15.0%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	52,503	10.3%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	89,677	17.6%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	122,107	24.0%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	69,277	13.6%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	51,807	10.2%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	790	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	1,249	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	657	0.1%
Dextroamphetamine Single-entity Products Immediate Release	3,177	0.6%
Dextroamphetamine Single-entity Products Extended Release	2,286	0.4%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	51,248	10.1%
Amphetamine/Dextroamphetamine Combination Products Extended Release	51,107	10.0%
Lisdexamfetamine Extended Release	50,091	9.8%
Methamphetamine Single-entity Products Immediate Release	65	0.0%
Methylphenidate Single-entity Products Immediate Release	27,480	5.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	49,267	9.7%
Methylphenidate Single-entity Products Extended Release Oral Liquid	1,400	0.3%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	1,109	0.2%
Dexmethylphenidate Single-entity Products Immediate Release	9,723	1.9%
Dexmethylphenidate Single-entity Products Extended Release	18,091	3.6%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	1,315	0.3%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	82,948	16.3%
Any ADHD Stimulant API Extended Release	133,226	26.2%
Atomoxetine Immediate Release	228,042	44.8%
Guanfacine Extended Release	122,245	24.0%
Viloxazine Extended Release	7,405	1.5%
Clonidine Extended Release	178,993	35.2%
Any ADHD Non-Stimulant API Extended Release	302,967	59.5%
Codeine	91	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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Fentanyl	5,133	1.0%
Hydrocodone	86,558	17.0%
Hydromorphone	7,058	1.4%
Morphine	10,713	2.1%
Oxycodone	66,767	13.1%
Oxymorphone	479	0.1%
Other C-II Opioid Analgesics	3,198	0.6%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	26.4	34.3
Mean number of emergency room encounters	0.9	2.6
Mean number of inpatient hospital encounters	0.5	1.2
Mean number of non-acute institutional encounters	0.2	0.7
Mean number of other ambulatory encounters	10.3	21.6
Mean number of filled prescriptions	38.2	36.5
Mean number of generics dispensed	10.9	6.9
Mean number of unique drug classes dispensed	9.8	5.8
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	146,812	28.8%
Diagnosis 2: F411 — Generalized Anxiety Disorder	78,397	15.4%
Diagnosis 3: F419 — Anxiety Disorder Unspecified	68,589	13.5%
Diagnosis 4: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	66,313	13.0%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	57,768	11.3%

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

²Value represents the standard deviation where no % follows the value.

³Due 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.

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 January 1, 2017 to March 31, 2023

		Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	
Patient Characteristics		Number	
Unique patients		8,090,581	
Healthcare Payor Status		Number	Percent
Commercial payor patients		3,328,958	41.2%
Medicare Members		4,761,623	58.9%
Demographic Characteristics		Mean	Standard Deviation
Age (years)		65.7	13.2
		Number	Percent
Age			
5-12 years		25,461	0.3%
13-17 years		42,869	0.5%
18-25 years		148,300	1.8%
26-29 years		89,733	1.1%
30-39 years		399,175	4.9%
40-49 years		598,695	7.4%
50-64 years		1,615,205	20.0%
≥ 65 years		5,171,143	63.9%
Sex			
Female		4,619,742	57.1%
Male		3,470,839	42.9%
Race ¹			
American Indian or Alaska Native		29,578	0.4%
Asian		78,981	1.0%
Black or African American		513,601	6.3%
Multi-racial		30,860	0.4%
Native Hawaiian or Other Pacific Islander		7,535	0.1%
Unknown		2,363,947	29.2%
White		5,066,079	62.6%
Hispanic origin			
Yes		114,795	1.4%
No		5,325,329	65.8%
Unknown		2,650,457	32.8%
Year			
2017		1,894,583	23.4%
2018		1,517,672	18.8%
2019		1,227,617	15.2%
2020		1,090,976	13.5%
2021		1,086,023	13.4%
2022		1,018,460	12.6%
2023		29,396	5.8%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	
Demographic Characteristics	Number/Mean	Percent/Standard Deviation ²
Census Bureau Region ³		
Invalid	31,061	0.4%
Midwest	2,052,011	25.4%
Northeast	959,522	11.9%
South	3,417,676	42.2%
West	1,624,321	20.1%
Missing	2,649	0.0%
Other	3,341	0.0%
Health Characteristics	Number	Percent ¹
Combined comorbidity score ⁴	2.9	3.4
Combined comorbidity score categories		
<=0	2,575,554	31.8%
1-2	2,297,949	28.4%
3-4	1,180,265	14.6%
5+	2,036,813	25.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	166,453	2.1%
ADHD Non-Stimulant Medication on index date or year prior	34,646	0.4%
Schedule II (C-II) Analgesic on index date or year prior	8,090,581	100.0%
Medication for Opioid-Related Disorders on index date or year prior	26,488	0.3%
Antidepressant Medication on index date or year prior	3,014,012	37.3%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	2,386,584	29.5%
Antipsychotic Medication on index date or year prior	651,672	8.1%
Mood Stabilizers on index date or year prior	308,542	3.8%
Cancer on index date or year prior	1,269,993	15.7%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	6,960,247	86.0%
ADHD on index date or year prior	137,327	1.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	48,144	0.6%
Narcolepsy on index date or year prior	13,061	0.2%
Binge-Eating Disorder on index date or year prior	5,759	0.1%
ADHD on index date or 30 days Prior	55,231	0.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	12,890	0.2%
Narcolepsy on index date or 30 days Prior	4,442	0.1%
Binge-Eating Disorder on index date or 30 days Prior	1,772	0.0%
Hypertension on index date or year prior	5,610,991	69.4%
Coronary artery disease on index date or year prior	2,310,364	28.6%
Cardiac arrhythmia on index date or year prior	2,082,670	25.7%
Cardiomyopathy on index date or year prior	421,059	5.2%
Cardiac structural abnormality on index date or year prior	97,632	1.2%
All other diseases of the circulatory system on index date or year prior	1,512,381	18.7%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Health Characteristics	Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	
	Number	Percent ¹
Epilepsy or recurrent seizures on index date or year prior	217,187	2.7%
Other seizure or convulsions on index date or year prior	211,159	2.6%
Depression on index date or year prior	1,969,346	24.3%
Anxiety on index date or year prior	2,165,559	26.8%
Bipolar Disorder on index date or year prior	250,164	3.1%
Sleep Disorder on index date or year prior	2,893,399	35.8%
Psychotic Disorder on index date or year prior	202,626	2.5%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	147,035	1.8%
Manic Episode on index date or year prior	7,984	0.1%
Autistic Disorder on index date or year prior	9,795	0.1%
Any Substance-Related Disorders on index date or year prior	2,960,769	36.6%
Opioid-Related Disorders on index date or year prior	228,649	2.8%
Stimulant-Related Disorders on index date or year prior	50,927	0.6%
Cocaine-Related Disorders on index date or year prior	26,941	0.3%
Other Stimulant-Related Disorders on index date or year prior	27,982	0.3%
Alcohol-Related Disorders on index date or year prior	275,195	3.4%
Cannabis-Related Disorders on index date or year prior	95,040	1.2%
Tobacco-Related Disorders on index date or year prior	2,722,445	33.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	464,534	5.7%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	13,315	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	8,244	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,926	0.0%
Intentional Poisoning by Broad Category on index date or year prior	64,049	0.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	7,936,908	98.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	8,029,663	99.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	44,745	0.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	12,292	0.2%
At least One Encounter in the Emergency Department in Year Prior	3,298,176	40.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	2,821,622	34.9%
At least One Encounter in the Outpatient Care Setting in Year Prior	8,039,938	99.4%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	2,714,918	33.6%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	1,091,764	13.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	557,806	6.9%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	547,662	6.8%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	130,701	1.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	31,472	0.4%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	123,706	1.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	28,161	0.3%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	382	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	557	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	66	0.0%
Dextroamphetamine Single-entity Products Immediate Release	4,072	0.1%
Dextroamphetamine Single-entity Products Extended Release	2,638	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	102,742	1.3%
Amphetamine/Dextroamphetamine Combination Products Extended Release	58,551	0.7%
Lisdexamfetamine Extended Release	42,510	0.5%
Methamphetamine Single-entity Products Immediate Release	87	0.0%
Methylphenidate Single-entity Products Immediate Release	45,869	0.6%
Methylphenidate Single-entity Products Extended Release Oral Solid	21,767	0.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	120	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	213	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	2,965	0.0%
Dexmethylphenidate Single-entity Products Extended Release	4,207	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	319	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	146,736	1.8%
Any ADHD Stimulant API Extended Release	111,425	1.4%
Atomoxetine Immediate Release	19,901	0.2%
Guanfacine Extended Release	5,203	0.1%
Viloxazine Extended Release	441	0.0%
Clonidine Extended Release	36,878	0.5%
Any ADHD Non-Stimulant API Extended Release	42,308	0.5%
Codeine	6,764	0.1%

Table 1c. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

		Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent	
Fentanyl	183,545	2.3%	
Hydrocodone	5,327,668	65.9%	
Hydromorphone	323,384	4.0%	
Morphine	480,717	5.9%	
Oxycodone	4,189,669	51.8%	
Oxymorphone	2,280	0.0%	
Other C-II Opioid Analgesics	67,012	0.8%	
Health Service Utilization Intensity Metrics	Mean	Standard Deviation	
Mean number of ambulatory encounters	26.0	26.4	
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	0.6	
Mean number of other ambulatory encounters	9.5	18.9	
Mean number of filled prescriptions	38.1	34.2	
Mean number of generics dispensed	11.9	6.3	
Mean number of unique drug classes dispensed	10.6	5.4	
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent	
Diagnosis 1: I10 — Essential Primary Hypertension	3,688,164	45.6%	
Diagnosis 2: E785 — Hyperlipidemia Unspecified	1,922,101	23.8%	
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	1,798,842	22.2%	
Diagnosis 4: Z79899 — Other Long Term Current Drug Therapy	1,653,333	20.4%	
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	1,330,855	16.4%	

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

²Value represents the standard deviation where no % follows the value.

³Due 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.

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 1d. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	377,863	
Healthcare Payor Status	Number	Percent
Commercial payor patients	377,829	99.99%
Medicare Members	34	0.01%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	11.8	3.7
Age	Number	Percent
5-12 years	223,116	59.0%
13-17 years	154,747	41.0%
Sex		
Female	143,007	37.8%
Male	234,856	62.2%
Race ¹		
American Indian or Alaska Native	180	0.0%
Asian	1,269	0.3%
Black or African American	2,328	0.6%
Multi-racial	7,656	2.0%
Native Hawaiian or Other Pacific Islander	70	0.0%
Unknown	332,250	87.9%
White	34,110	9.0%
Hispanic origin		
Yes	3,900	1.0%
No	13,657	3.6%
Unknown	360,306	95.4%
Year		
2017	60,984	16.1%
2018	58,736	15.5%
2019	60,577	16.0%
2020	52,885	14.0%
2021	61,537	16.3%
2022	64,974	17.2%
2023	18,170	4.8%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5-17 Years		
Demographic Characteristics	Number/Mean	Percent/Standard Deviation ²
Census Bureau Region ³		
Invalid	3,280	0.9%
Midwest	99,134	26.2%
Northeast	43,630	11.6%
South	162,896	43.1%
West	68,463	18.1%
Missing	416	0.1%
Other	44	0.0%
Health Characteristics	Number	Percent
Combined comorbidity score ⁴	0.4	0.7
Combined comorbidity score categories		
<=0	271,697	71.9%
1-2	100,623	26.6%
3-4	4,958	1.3%
5+	585	0.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	377,863	100.0%
ADHD Non-Stimulant Medication on index date or year prior	29,199	7.7%
Schedule II (C-II) Analgesic on index date or year prior	12,425	3.3%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	71,142	18.8%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	21,779	5.8%
Antipsychotic Medication on index date or year prior	15,860	4.2%
Mood Stabilizers on index date or year prior	9,095	2.4%
Cancer on index date or year prior	386	0.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	66,475	17.6%
ADHD on index date or year prior	298,353	79.0%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	41,978	11.1%
Narcolepsy on index date or year prior	565	0.1%
Binge-Eating Disorder on index date or year prior	682	0.2%
ADHD on index date or 30 days Prior	262,358	69.4%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	22,313	5.9%
Narcolepsy on index date or 30 days Prior	357	0.1%
Binge-Eating Disorder on index date or 30 days Prior	487	0.1%
Hypertension on index date or year prior	1,594	0.4%
Coronary artery disease on index date or year prior	214	0.1%
Cardiac arrhythmia on index date or year prior	7,203	1.9%
Cardiomyopathy on index date or year prior	183	0.0%
Cardiac structural abnormality on index date or year prior	3,328	0.9%
All other diseases of the circulatory system on index date or year prior	3,465	0.9%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number	Percent
Epilepsy or recurrent seizures on index date or year prior	4,215	1.1%
Other seizure or convulsions on index date or year prior	4,434	1.2%
Depression on index date or year prior	53,846	14.3%
Anxiety on index date or year prior	103,844	27.5%
Bipolar Disorder on index date or year prior	4,494	1.2%
Sleep Disorder on index date or year prior	23,450	6.2%
Psychotic Disorder on index date or year prior	2,755	0.7%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	6,195	1.6%
Manic Episode on index date or year prior	123	0.0%
Autistic Disorder on index date or year prior	22,709	6.0%
Any Substance-Related Disorders on index date or year prior	5,779	1.5%
Opioid-Related Disorders on index date or year prior	394	0.1%
Stimulant-Related Disorders on index date or year prior	371	0.1%
Cocaine-Related Disorders on index date or year prior	120	0.0%
Other Stimulant-Related Disorders on index date or year prior	278	0.1%
Alcohol-Related Disorders on index date or year prior	1,366	0.4%
Cannabis-Related Disorders on index date or year prior	3,508	0.9%
Tobacco-Related Disorders on index date or year prior	1,689	0.4%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	509	0.1%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	195	0.1%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	43	0.0%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	36	0.0%
Intentional Poisoning by Broad Category on index date or year prior	383	0.1%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	78,763	20.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	114,911	30.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	4,814	1.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	3,199	0.8%
At least One Encounter in the Emergency Department in Year Prior	60,093	15.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	11,104	2.9%
At least One Encounter in the Outpatient Care Setting in Year Prior	368,531	97.5%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5-17 Years		
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	99,874	26.4%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	5,468	1.4%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	7,251	1.9%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	23,419	6.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	44,625	11.8%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	1,429	0.4%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	980	0.3%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	1,493	0.4%
Amphetamine Single-entity Products Extended Release Oral Solid	3,352	0.9%
Amphetamine Single-entity Products Extended Release Oral Liquid	2,672	0.7%
Dextroamphetamine Single-entity Products Immediate Release	3,906	1.0%
Dextroamphetamine Single-entity Products Extended Release	2,868	0.8%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	59,202	15.7%
Amphetamine/Dextroamphetamine Combination Products Extended Release	108,104	28.6%
Lisdexamfetamine Extended Release	106,092	28.1%
Methamphetamine Single-entity Products Immediate Release	11	0.0%
Methylphenidate Single-entity Products Immediate Release	68,744	18.2%
Methylphenidate Single-entity Products Extended Release Oral Solid	170,228	45.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	7,494	2.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	2,375	0.6%
Dexmethylphenidate Single-entity Products Immediate Release	25,040	6.6%
Dexmethylphenidate Single-entity Products Extended Release	69,285	18.3%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	2,582	0.7%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	141,700	37.5%
Any ADHD Stimulant API Extended Release	344,537	91.2%
Atomoxetine Immediate Release	20,653	5.5%
Guanfacine Extended Release	37,223	9.9%
Viloxazine Extended Release	2,473	0.7%
Clonidine Extended Release	3,765	1.0%
Any ADHD Non-Stimulant API Extended Release	41,275	10.9%
Codeine	*****	*****

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 5-17 Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Fentanyl	13	0.0%
Hydrocodone	23,571	6.2%
Hydromorphone	163	0.0%
Morphine	94	0.0%
Oxycodone	10,618	2.8%
Oxymorphone	0	0.0%
Other C-II Opioid Analgesics	122	0.0%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.3	17.8
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	2.1	9.3
Mean number of filled prescriptions	6.8	9.4
Mean number of generics dispensed	3.4	2.8
Mean number of unique drug classes dispensed	3.3	2.5
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	119,282	31.6%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	91,388	24.2%
Diagnosis 3: F909 — Attention-Deficit Hyperactivity Disorder Unspecified	53,367	14.1%
Diagnosis 4: Z23 — Encounter For Immunization	45,879	12.1%
Diagnosis 5: Z00129 — Encounter Routine Child Health Exam Without Abnormal Find	41,931	11.1%

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

²Value represents the standard deviation where no % follows the value.

³Due 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.

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	128,558	
Healthcare Payor Status	Number	Percent
Commercial payor patients	128,466	99.9%
Medicare Members	92	0.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	11.7	3.5
	Number	Percent
Age		
5-12 years	79,467	61.8%
13-17 years	49,091	38.2%
Sex		
Female	44,081	34.3%
Male	84,477	65.7%
Race ¹		
American Indian or Alaska Native	77	0.1%
Asian	392	0.3%
Black or African American	815	0.6%
Multi-racial	2,732	2.1%
Native Hawaiian or Other Pacific Islander	18	0.0%
Unknown	112,530	87.5%
White	11,994	9.3%
Hispanic origin		
Yes	1,275	1.0%
No	4,507	3.5%
Unknown	122,776	95.5%
Year		
2017	18,790	14.6%
2018	18,852	14.7%
2019	20,364	15.8%
2020	18,028	14.0%
2021	21,115	16.4%
2022	24,283	18.9%
2023	7,126	5.5%
Census Bureau Region ²		
Invalid	906	0.7%
Midwest	35,956	28.0%
Northeast	15,850	12.3%
South	53,214	41.4%
West	22,465	17.5%
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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.5	0.9
Combined comorbidity score categories		
<=0	79,917	62.2%
1-2	44,500	34.6%
3-4	3,574	2.8%
5+	567	0.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	70,943	55.2%
ADHD Non-Stimulant Medication on index date or year prior	128,558	100.0%
Schedule II (C-II) Analgesic on index date or year prior	4,125	3.2%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	40,522	31.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	13,262	10.3%
Antipsychotic Medication on index date or year prior	13,487	10.5%
Mood Stabilizers on index date or year prior	6,638	5.2%
Cancer on index date or year prior	161	0.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	23,785	18.5%
ADHD on index date or year prior	101,182	78.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	25,760	20.0%
Narcolepsy on index date or year prior	65	0.1%
Binge-Eating Disorder on index date or year prior	169	0.1%
ADHD on index date or 30 days Prior	82,592	64.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	14,545	11.3%
Narcolepsy on index date or 30 days Prior	25	0.0%
Binge-Eating Disorder on index date or 30 days Prior	77	0.1%
Hypertension on index date or year prior	1,137	0.9%
Coronary artery disease on index date or year prior	140	0.1%
Cardiac arrhythmia on index date or year prior	3,949	3.1%
Cardiomyopathy on index date or year prior	125	0.1%
Cardiac structural abnormality on index date or year prior	1,610	1.3%
All other diseases of the circulatory system on index date or year prior	1,542	1.2%
Epilepsy or recurrent seizures on index date or year prior	2,424	1.9%
Other seizure or convulsions on index date or year prior	2,681	2.1%
Depression on index date or year prior	25,018	19.5%
Anxiety on index date or year prior	53,404	41.5%
Bipolar Disorder on index date or year prior	3,333	2.6%
Sleep Disorder on index date or year prior	12,149	9.5%
Psychotic Disorder on index date or year prior	2,368	1.8%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	4,396	3.4%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 5-17 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	110	0.1%
Autistic Disorder on index date or year prior	15,469	12.0%
Any Substance-Related Disorders on index date or year prior	4,424	3.4%
Opioid-Related Disorders on index date or year prior	426	0.3%
Stimulant-Related Disorders on index date or year prior	473	0.4%
Cocaine-Related Disorders on index date or year prior	156	0.1%
Other Stimulant-Related Disorders on index date or year prior	364	0.3%
Alcohol-Related Disorders on index date or year prior	1,189	0.9%
Cannabis-Related Disorders on index date or year prior	3,030	2.4%
Tobacco-Related Disorders on index date or year prior	1,431	1.1%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	415	0.3%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	202	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	40	0.0%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	55	0.0%
Intentional Poisoning by Broad Category on index date or year prior	491	0.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	27,317	21.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	45,940	35.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	3,922	3.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	3,308	2.6%
At least One Encounter in the Emergency Department in Year Prior	26,103	20.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	8,252	6.4%
At least One Encounter in the Outpatient Care Setting in Year Prior	126,862	98.7%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	48,206	37.5%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	2,589	2.0%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	3,622	2.8%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	17,592	13.7%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	63,908	49.7%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	400	0.3%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	303	0.2%

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 January 1, 2017 to March 31, 2023

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	497	0.4%
Amphetamine Single-entity Products Extended Release Oral Solid	890	0.7%
Amphetamine Single-entity Products Extended Release Oral Liquid	628	0.5%
Dextroamphetamine Single-entity Products Immediate Release	1,170	0.9%
Dextroamphetamine Single-entity Products Extended Release	864	0.7%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	12,216	9.5%
Amphetamine/Dextroamphetamine Combination Products Extended Release	18,326	14.3%
Lisdexamfetamine Extended Release	23,457	18.2%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	14,236	11.1%
Methylphenidate Single-entity Products Extended Release Oral Solid	32,881	25.6%
Methylphenidate Single-entity Products Extended Release Oral Liquid	1,371	1.1%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	900	0.7%
Dexmethylphenidate Single-entity Products Immediate Release	7,404	5.8%
Dexmethylphenidate Single-entity Products Extended Release	14,605	11.4%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	964	0.7%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	31,455	24.5%
Any ADHD Stimulant API Extended Release	68,176	53.0%
Atomoxetine Immediate Release	50,216	39.1%
Guanfacine Extended Release	81,973	63.8%
Viloxazine Extended Release	4,434	3.4%
Clonidine Extended Release	8,976	7.0%
Any ADHD Non-Stimulant API Extended Release	90,959	70.8%
Codeine	*****	*****
Fentanyl	*****	*****
Hydrocodone	7,349	5.7%
Hydromorphone	75	0.1%
Morphine	44	0.0%
Oxycodone	3,516	2.7%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	56	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 January 1, 2017 to March 31, 2023

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	22.5
Mean number of emergency room encounters	0.3	1.1
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	3.3	13.2
Mean number of filled prescriptions	13.8	13.7
Mean number of generics dispensed	4.7	3.2
Mean number of unique drug classes dispensed	4.5	2.9
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	46,166	35.9%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	19,833	15.4%
Diagnosis 3: F411 — Generalized Anxiety Disorder	18,909	14.7%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified	18,283	14.2%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	17,187	13.4%

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 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Patient Characteristics	Number	
Unique patients	68,330	
Healthcare Payor Status	Number	Percent
Commercial payor patients	68,238	99.9%
Medicare Members	92	0.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	13.3	3.9
	Number	Percent
Age		
5-12 years	25,461	37.3%
13-17 years	42,869	62.7%
Sex		
Female	34,888	51.1%
Male	33,442	48.9%
Race ¹		
American Indian or Alaska Native	28	0.0%
Asian	229	0.3%
Black or African American	373	0.5%
Multi-racial	891	1.3%
Native Hawaiian or Other Pacific Islander	13	0.0%
Unknown	62,339	91.2%
White	4,457	6.5%
Hispanic origin		
Yes	452	0.7%
No	1,725	2.5%
Unknown	66,153	96.8%
Year		
2017	25,529	37.4%
2018	17,917	26.2%
2019	10,423	15.3%
2020	4,857	7.1%
2021	4,422	6.5%
2022	4,178	6.1%
2023	1,004	1.5%
Census Bureau Region ²		
Invalid	436	0.6%
Midwest	19,952	29.2%
Northeast	4,061	5.9%
South	29,298	42.9%
West	14,465	21.17%
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 January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.5	1.1
Combined comorbidity score categories		
<=0	49,548	72.5%
1-2	16,383	24.0%
3-4	1,457	2.1%
5+	942	1.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	5,269	7.7%
ADHD Non-Stimulant Medication on index date or year prior	1,100	1.6%
Schedule II (C-II) Analgesic on index date or year prior	68,330	100.0%
Medication for Opioid-Related Disorders on index date or year prior	*****	*****
Antidepressant Medication on index date or year prior	6,391	9.4%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	7,881	11.5%
Antipsychotic Medication on index date or year prior	1,383	2.0%
Mood Stabilizers on index date or year prior	987	1.4%
Cancer on index date or year prior	610	0.9%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	32,247	47.2%
ADHD on index date or year prior	6,238	9.1%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,576	2.3%
Narcolepsy on index date or year prior	40	0.1%
Binge-Eating Disorder on index date or year prior	22	0.0%
ADHD on index date or 30 days Prior	2,670	3.9%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	486	0.7%
Narcolepsy on index date or 30 days Prior	18	0.0%
Binge-Eating Disorder on index date or 30 days Prior	*****	*****
Hypertension on index date or year prior	987	1.4%
Coronary artery disease on index date or year prior	144	0.2%
Cardiac arrhythmia on index date or year prior	2,538	3.7%
Cardiomyopathy on index date or year prior	142	0.2%
Cardiac structural abnormality on index date or year prior	1,024	1.5%
All other diseases of the circulatory system on index date or year prior	1,897	2.8%
Epilepsy or recurrent seizures on index date or year prior	925	1.4%
Other seizure or convulsions on index date or year prior	914	1.3%
Depression on index date or year prior	4,571	6.7%
Anxiety on index date or year prior	7,950	11.6%
Bipolar Disorder on index date or year prior	374	0.5%
Sleep Disorder on index date or year prior	13,955	20.4%
Psychotic Disorder on index date or year prior	245	0.4%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	559	0.8%

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	18	0.0%
Autistic Disorder on index date or year prior	1,063	1.6%
Any Substance-Related Disorders on index date or year prior	1,227	1.8%
Opioid-Related Disorders on index date or year prior	362	0.5%
Stimulant-Related Disorders on index date or year prior	54	0.1%
Cocaine-Related Disorders on index date or year prior	15	0.0%
Other Stimulant-Related Disorders on index date or year prior	43	0.1%
Alcohol-Related Disorders on index date or year prior	177	0.3%
Cannabis-Related Disorders on index date or year prior	408	0.6%
Tobacco-Related Disorders on index date or year prior	470	0.7%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	112	0.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	28	0.0%
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	302	0.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	62,050	90.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	65,642	96.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	812	1.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	282	0.4%
At least One Encounter in the Emergency Department in Year Prior	20,421	29.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	8,324	12.2%
At least One Encounter in the Outpatient Care Setting in Year Prior	67,361	98.6%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	4,218	6.2%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	2,723	4.0%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	291	0.4%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	850	1.2%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	2,709	4.0%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	596	0.9%

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years		
Medical Product Use - Concurrent Use	Number	Percent
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	2,663	3.9%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	587	0.9%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	48	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	83	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	37	0.1%
Dextroamphetamine Single-entity Products Immediate Release	105	0.2%
Dextroamphetamine Single-entity Products Extended Release	63	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	1,750	2.6%
Amphetamine/Dextroamphetamine Combination Products Extended Release	2,489	3.6%
Lisdexamfetamine Extended Release	2,760	4.0%
Methamphetamine Single-entity Products Immediate Release	0	0.0%
Methylphenidate Single-entity Products Immediate Release	1,212	1.8%
Methylphenidate Single-entity Products Extended Release Oral Solid	3,069	4.5%
Methylphenidate Single-entity Products Extended Release Oral Liquid	97	0.1%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	56	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	497	0.7%
Dexmethylphenidate Single-entity Products Extended Release	1,155	1.7%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	54	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	3,275	4.8%
Any ADHD Stimulant API Extended Release	7,408	10.8%
Atomoxetine Immediate Release	995	1.5%
Guanfacine Extended Release	1,154	1.7%
Viloxazine Extended Release	75	0.1%
Clonidine Extended Release	242	0.4%
Any ADHD Non-Stimulant API Extended Release	1,403	2.1%
Codeine	24	0.0%
Fentanyl	77	0.1%
Hydrocodone	50,186	73.4%
Hydromorphone	645	0.9%
Morphine	612	0.9%
Oxycodone	24,524	35.9%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	364	0.5%

Table 1f. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 5-17 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

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	13.5	15.3
Mean number of emergency room encounters	0.5	1.2
Mean number of inpatient hospital encounters	0.2	0.8
Mean number of non-acute institutional encounters	0.0	0.6
Mean number of other ambulatory encounters	2.3	11.3
Mean number of filled prescriptions	9.9	12.4
Mean number of generics dispensed	5.4	3.8
Mean number of unique drug classes dispensed	4.8	3.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: J353 — Hypertrophy Tonsils With Hypertrophy Of Adenoids	13,853	20.3%
Diagnosis 2: G8918 — Other Acute Postprocedural Pain	10,494	15.4%
Diagnosis 3: J351 — Hypertrophy Of Tonsils	8,477	12.4%
Diagnosis 4: Z01818 — Encounter For Other Preprocedural Examination	8,421	12.3%
Diagnosis 5: J3501 — Chronic Tonsillitis	7,951	11.6%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18-25 Years		
Patient Characteristics	Number	
Unique patients	256,932	
Healthcare Payor Status	Number	Percent
Commercial payor patients	252,570	98.3%
Medicare Members	4,362	1.7%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	21.9	2.3
	Number	Percent
Age		
18-25 years	256,932	100.0%
Sex		
Female	136,925	53.3%
Male	120,007	46.7%
Race ¹		
American Indian or Alaska Native	168	0.1%
Asian	1,746	0.7%
Black or African American	1,958	0.8%
Multi-racial	4,984	1.9%
Native Hawaiian or Other Pacific Islander	55	0.0%
Unknown	219,706	85.5%
White	28,315	11.0%
Hispanic origin		
Yes	3,045	1.2%
No	11,789	4.6%
Unknown	242,098	94.2%
Year		
2017	38,364	14.9%
2018	36,402	14.2%
2019	35,892	14.0%
2020	37,124	14.4%
2021	49,535	19.3%
2022	48,595	18.9%
2023	11,020	4.3%
Census Bureau Region ²		
Invalid	2,538	1.0%
Midwest	60,119	23.4%
Northeast	37,427	14.6%
South	106,158	41.3%
West	50,222	19.6%
Missing	426	0.2%
Other	42	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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.6	0.9
Combined comorbidity score categories		
<=0	142,017	55.3%
1-2	105,192	40.9%
3-4	8,393	3.3%
5+	1,330	0.5%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	256,932	100.0%
ADHD Non-Stimulant Medication on index date or year prior	14,305	5.6%
Schedule II (C-II) Analgesic on index date or year prior	28,681	11.2%
Medication for Opioid-Related Disorders on index date or year prior	881	0.3%
Antidepressant Medication on index date or year prior	108,385	42.2%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	47,909	18.6%
Antipsychotic Medication on index date or year prior	21,758	8.5%
Mood Stabilizers on index date or year prior	17,492	6.8%
Cancer on index date or year prior	533	0.2%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	70,020	27.3%
ADHD on index date or year prior	160,457	62.5%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	3,655	1.4%
Narcolepsy on index date or year prior	1,506	0.6%
Binge-Eating Disorder on index date or year prior	2,706	1.1%
ADHD on index date or 30 days Prior	141,652	55.1%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,434	0.6%
Narcolepsy on index date or 30 days Prior	929	0.4%
Binge-Eating Disorder on index date or 30 days Prior	2,134	0.8%
Hypertension on index date or year prior	5,643	2.2%
Coronary artery disease on index date or year prior	497	0.2%
Cardiac arrhythmia on index date or year prior	10,141	3.9%
Cardiomyopathy on index date or year prior	227	0.1%
Cardiac structural abnormality on index date or year prior	1,097	0.4%
All other diseases of the circulatory system on index date or year prior	4,187	1.6%
Epilepsy or recurrent seizures on index date or year prior	2,200	0.9%
Other seizure or convulsions on index date or year prior	2,503	1.0%
Depression on index date or year prior	80,047	31.2%
Anxiety on index date or year prior	109,701	42.7%
Bipolar Disorder on index date or year prior	14,677	5.7%
Sleep Disorder on index date or year prior	24,526	9.5%
Psychotic Disorder on index date or year prior	3,584	1.4%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	11,752	4.6%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	346	0.1%
Autistic Disorder on index date or year prior	5,537	2.2%
Any Substance-Related Disorders on index date or year prior	26,290	10.2%
Opioid-Related Disorders on index date or year prior	2,677	1.0%
Stimulant-Related Disorders on index date or year prior	2,567	1.0%
Cocaine-Related Disorders on index date or year prior	1,380	0.5%
Other Stimulant-Related Disorders on index date or year prior	1,633	0.6%
Alcohol-Related Disorders on index date or year prior	7,053	2.7%
Cannabis-Related Disorders on index date or year prior	9,513	3.7%
Tobacco-Related Disorders on index date or year prior	14,498	5.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	3,583	1.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	554	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	290	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	108	0.0%
Intentional Poisoning by Broad Category on index date or year prior	565	0.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	93,714	36.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	113,066	44.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	920	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	405	0.2%
At least One Encounter in the Emergency Department in Year Prior	50,072	19.5%
At least One Encounter in the Inpatient Care Setting in Year Prior	11,062	4.3%
At least One Encounter in the Outpatient Care Setting in Year Prior	241,619	94.0%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	114,477	44.6%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	21,294	8.3%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	17,371	6.8%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	24,232	9.4%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	10,616	4.1%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	4,632	1.8%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	2,768	1.1%

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 January 1, 2017 to March 31, 2023

ADHD 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	786	0.3%
Amphetamine Single-entity Products Extended Release Oral Solid	936	0.4%
Amphetamine Single-entity Products Extended Release Oral Liquid	105	0.0%
Dextroamphetamine Single-entity Products Immediate Release	3,198	1.2%
Dextroamphetamine Single-entity Products Extended Release	1,943	0.8%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	106,439	41.4%
Amphetamine/Dextroamphetamine Combination Products Extended Release	97,826	38.1%
Lisdexamfetamine Extended Release	74,175	28.9%
Methamphetamine Single-entity Products Immediate Release	21	0.0%
Methylphenidate Single-entity Products Immediate Release	28,280	11.0%
Methylphenidate Single-entity Products Extended Release Oral Solid	46,457	18.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	88	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	339	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	5,758	2.2%
Dexmethylphenidate Single-entity Products Extended Release	9,506	3.7%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	475	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	134,381	52.3%
Any ADHD Stimulant API Extended Release	193,032	75.1%
Atomoxetine Immediate Release	9,983	3.9%
Guanfacine Extended Release	3,725	1.4%
Viloxazine Extended Release	334	0.1%
Clonidine Extended Release	464	0.2%
Any ADHD Non-Stimulant API Extended Release	4,438	1.7%
Codeine	*****	*****
Fentanyl	51	0.0%
Hydrocodone	26,283	10.2%
Hydromorphone	530	0.2%
Morphine	204	0.1%
Oxycodone	15,522	6.0%
Oxymorphone	12	0.0%
Other C-II Opioid Analgesics	113	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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18-25 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	11.4	14.4
Mean number of emergency room encounters	0.3	1.0
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	2.5	6.0
Mean number of filled prescriptions	12.1	14.1
Mean number of generics dispensed	5.5	4.3
Mean number of unique drug classes dispensed	5.2	3.9
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	65,682	25.6%
Diagnosis 2: F411 — Generalized Anxiety Disorder	43,069	16.8%
Diagnosis 3: F909 — Attention--Deficit Hyperactivity Disorder Unspecified	39,003	15.2%
Diagnosis 4: F902 — Attention--Deficit Hyperactivity Disorder Combined Type	38,911	15.1%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	26,333	10.2%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Patient Characteristics	Number	
Unique patients	57,356	
Healthcare Payor Status	Number	Percent
Commercial payor patients	53,976	94.1%
Medicare Members	3,380	5.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	21.9	2.3
	Number	Percent
Age		
18-25 years	57,356	100.0%
Sex		
Female	30,657	53.5%
Male	26,699	46.5%
Race ¹		
American Indian or Alaska Native	70	0.1%
Asian	392	0.7%
Black or African American	826	1.4%
Multi-racial	1,144	2.0%
Native Hawaiian or Other Pacific Islander	16	0.0%
Unknown	47,141	82.2%
White	7,767	13.5%
Hispanic origin		
Yes	778	1.4%
No	4,623	8.1%
Unknown	51,955	90.6%
Year		
2017	5,987	10.4%
2018	6,342	11.1%
2019	7,026	12.2%
2020	7,819	13.6%
2021	11,861	20.7%
2022	14,121	24.6%
2023	4,200	7.3%
Census Bureau Region ²		
Invalid	501	0.9%
Midwest	14,429	25.2%
Northeast	8,399	14.6%
South	22,912	40.0%
West	11,042	19.3%
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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.0	1.3
Combined comorbidity score categories		
<=0	21,963	38.3%
1-2	30,172	52.6%
3-4	4,122	7.2%
5+	1,099	1.9%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	17,826	31.1%
ADHD Non-Stimulant Medication on index date or year prior	57,356	100.0%
Schedule II (C-II) Analgesic on index date or year prior	6,706	11.7%
Medication for Opioid-Related Disorders on index date or year prior	1,009	1.8%
Antidepressant Medication on index date or year prior	33,710	58.8%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	17,501	30.5%
Antipsychotic Medication on index date or year prior	12,455	21.7%
Mood Stabilizers on index date or year prior	8,758	15.3%
Cancer on index date or year prior	131	0.2%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	17,804	31.0%
ADHD on index date or year prior	34,526	60.2%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	2,218	3.9%
Narcolepsy on index date or year prior	135	0.2%
Binge-Eating Disorder on index date or year prior	392	0.7%
ADHD on index date or 30 days Prior	28,245	49.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	897	1.6%
Narcolepsy on index date or 30 days Prior	44	0.1%
Binge-Eating Disorder on index date or 30 days Prior	197	0.3%
Hypertension on index date or year prior	2,826	4.9%
Coronary artery disease on index date or year prior	341	0.6%
Cardiac arrhythmia on index date or year prior	4,638	8.1%
Cardiomyopathy on index date or year prior	171	0.3%
Cardiac structural abnormality on index date or year prior	370	0.6%
All other diseases of the circulatory system on index date or year prior	1,556	2.7%
Epilepsy or recurrent seizures on index date or year prior	1,436	2.5%
Other seizure or convulsions on index date or year prior	1,575	2.7%
Depression on index date or year prior	25,294	44.1%
Anxiety on index date or year prior	33,680	58.7%
Bipolar Disorder on index date or year prior	7,628	13.3%
Sleep Disorder on index date or year prior	8,160	14.2%
Psychotic Disorder on index date or year prior	3,047	5.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	5,604	9.8%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Characteristics	Number	Percent
Manic Episode on index date or year prior	274	0.5%
Autistic Disorder on index date or year prior	3,666	6.4%
Any Substance-Related Disorders on index date or year prior	12,526	21.8%
Opioid-Related Disorders on index date or year prior	2,791	4.9%
Stimulant-Related Disorders on index date or year prior	3,295	5.7%
Cocaine-Related Disorders on index date or year prior	1,683	2.9%
Other Stimulant-Related Disorders on index date or year prior	2,393	4.2%
Alcohol-Related Disorders on index date or year prior	4,684	8.2%
Cannabis-Related Disorders on index date or year prior	6,505	11.3%
Tobacco-Related Disorders on index date or year prior	6,692	11.7%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	1,657	2.9%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	560	1.0%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	339	0.6%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	124	0.2%
Intentional Poisoning by Broad Category on index date or year prior	471	0.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	22,653	39.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	29,016	50.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	652	1.1%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	370	0.6%
At least One Encounter in the Emergency Department in Year Prior	15,924	27.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	6,513	11.4%
At least One Encounter in the Outpatient Care Setting in Year Prior	55,309	96.4%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	31,039	54.1%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	4,424	7.7%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	5,346	9.3%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	11,601	20.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	14,473	25.2%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	772	1.3%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	518	0.9%

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 January 1, 2017 to March 31, 2023

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	99	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	105	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	15	0.0%
Dextroamphetamine Single-entity Products Immediate Release	473	0.8%
Dextroamphetamine Single-entity Products Extended Release	283	0.5%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	8,471	14.8%
Amphetamine/Dextroamphetamine Combination Products Extended Release	8,665	15.1%
Lisdexamfetamine Extended Release	7,981	13.9%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	2,956	5.2%
Methylphenidate Single-entity Products Extended Release Oral Solid	5,248	9.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	70	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	732	1.3%
Dexmethylphenidate Single-entity Products Extended Release	1,233	2.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	97	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	11,622	20.3%
Any ADHD Stimulant API Extended Release	18,945	33.0%
Atomoxetine Immediate Release	44,239	77.1%
Guanfacine Extended Release	12,394	21.6%
Viloxazine Extended Release	862	1.5%
Clonidine Extended Release	2,798	4.9%
Any ADHD Non-Stimulant API Extended Release	15,747	27.5%
Codeine	*****	*****
Fentanyl	32	0.1%
Hydrocodone	5,419	9.4%
Hydromorphone	193	0.3%
Morphine	82	0.1%
Oxycodone	3,543	6.2%
Oxymorphone	*****	*****
Other C-II Opioid Analgesics	44	0.1%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 18-25 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	17.7	24.5
Mean number of emergency room encounters	0.6	1.8
Mean number of inpatient hospital encounters	0.2	0.9
Mean number of non-acute institutional encounters	0.1	0.5
Mean number of other ambulatory encounters	4.3	11.1
Mean number of filled prescriptions	20.0	20.3
Mean number of generics dispensed	7.4	5.4
Mean number of unique drug classes dispensed	7.0	4.7
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F411 — Generalized Anxiety Disorder	14,560	25.4%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	11,796	20.6%
Diagnosis 3: F902 — Attention--Deficit Hyperactivity Disorder Combined Type	8,678	15.1%
Diagnosis 4: F909 — Attention--Deficit Hyperactivity Disorder Unspecified	8,412	14.7%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	8,226	14.3%

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 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Patient Characteristics	Number	
Unique patients	149,134	
Healthcare Payor Status	Number	Percent
Commercial payor patients	142,800	95.8%
Medicare Members	6,334	4.3%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	22.3	2.3
	Number	Percent
Age		
18-25 years	149,134	100.0%
Sex		
Female	83,814	56.2%
Male	65,320	43.8%
Race ¹		
American Indian or Alaska Native	165	0.1%
Asian	627	0.4%
Black or African American	2,605	1.7%
Multi-racial	1,800	1.2%
Native Hawaiian or Other Pacific Islander	33	0.0%
Unknown	130,970	87.8%
White	12,934	8.7%
Hispanic origin		
Yes	1,665	1.1%
No	8,653	5.8%
Unknown	138,816	93.1%
Year		
2017	39,360	26.4%
2018	31,346	21.0%
2019	23,134	15.5%
2020	18,405	12.3%
2021	18,034	12.1%
2022	15,399	10.3%
2023	3,456	2.3%
Census Bureau Region ²		
Invalid	1,066	0.7%
Midwest	39,686	26.6%
Northeast	11,668	7.8%
South	62,711	42.1%
West	33,614	22.5%
Missing	370	0.3%
Other	19	0.0%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.7	1.4
Combined comorbidity score categories		
<=0	91,541	61.4%
1-2	46,339	31.1%
3-4	7,062	4.7%
5+	4,192	2.8%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	12,575	8.4%
ADHD Non-Stimulant Medication on index date or year prior	1,336	0.9%
Schedule II (C-II) Analgesic on index date or year prior	149,134	100.0%
Medication for Opioid-Related Disorders on index date or year prior	379	0.3%
Antidepressant Medication on index date or year prior	34,099	22.9%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	25,805	17.3%
Antipsychotic Medication on index date or year prior	7,377	4.9%
Mood Stabilizers on index date or year prior	5,534	3.7%
Cancer on index date or year prior	1,390	0.9%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	82,370	55.2%
ADHD on index date or year prior	12,731	8.5%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,196	0.8%
Narcolepsy on index date or year prior	241	0.2%
Binge-Eating Disorder on index date or year prior	216	0.1%
ADHD on index date or 30 days Prior	4,888	3.3%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	336	0.2%
Narcolepsy on index date or 30 days Prior	77	0.1%
Binge-Eating Disorder on index date or 30 days Prior	81	0.1%
Hypertension on index date or year prior	8,226	5.5%
Coronary artery disease on index date or year prior	1,291	0.9%
Cardiac arrhythmia on index date or year prior	11,617	7.8%
Cardiomyopathy on index date or year prior	631	0.4%
Cardiac structural abnormality on index date or year prior	1,298	0.9%
All other diseases of the circulatory system on index date or year prior	6,395	4.3%
Epilepsy or recurrent seizures on index date or year prior	3,009	2.0%
Other seizure or convulsions on index date or year prior	3,045	2.0%
Depression on index date or year prior	23,603	15.8%
Anxiety on index date or year prior	33,771	22.6%
Bipolar Disorder on index date or year prior	4,803	3.2%
Sleep Disorder on index date or year prior	15,522	10.4%
Psychotic Disorder on index date or year prior	1,695	1.1%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	3,970	2.7%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Health Characteristics	Number	Percent ¹
Manic Episode on index date or year prior	105	0.1%
Autistic Disorder on index date or year prior	1,488	1.0%
Any Substance-Related Disorders on index date or year prior	25,075	16.8%
Opioid-Related Disorders on index date or year prior	2,174	1.5%
Stimulant-Related Disorders on index date or year prior	1,400	0.9%
Cocaine-Related Disorders on index date or year prior	787	0.5%
Other Stimulant-Related Disorders on index date or year prior	815	0.5%
Alcohol-Related Disorders on index date or year prior	3,868	2.6%
Cannabis-Related Disorders on index date or year prior	5,311	3.6%
Tobacco-Related Disorders on index date or year prior	19,563	13.1%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	3,748	2.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	310	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	163	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	56	0.0%
Intentional Poisoning by Broad Category on index date or year prior	709	0.5%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	136,065	91.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	144,115	96.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	743	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	249	0.2%
At least One Encounter in the Emergency Department in Year Prior	60,752	40.7%
At least One Encounter in the Inpatient Care Setting in Year Prior	29,599	19.8%
At least One Encounter in the Outpatient Care Setting in Year Prior	143,039	95.9%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	21,666	14.5%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	6,716	4.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	3,148	2.1%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	4,413	3.0%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	6,811	4.6%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years		
Medical Product Use - Concurrent Use	Number	Percent
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	721	0.5%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	6,579	4.4%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	685	0.5%
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	45	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	58	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	233	0.2%
Dextroamphetamine Single-entity Products Extended Release	130	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	7,229	4.8%
Amphetamine/Dextroamphetamine Combination Products Extended Release	5,794	3.9%
Lisdexamfetamine Extended Release	5,319	3.6%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	1,494	1.0%
Methylphenidate Single-entity Products Extended Release Oral Solid	2,316	1.6%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	24	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	307	0.2%
Dexmethylphenidate Single-entity Products Extended Release	482	0.3%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	28	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	8,785	5.9%
Any ADHD Stimulant API Extended Release	12,036	8.1%
Atomoxetine Immediate Release	1,760	1.2%
Guanfacine Extended Release	552	0.4%
Viloxazine Extended Release	36	0.0%
Clonidine Extended Release	331	0.2%
Any ADHD Non-Stimulant API Extended Release	904	0.6%
Codeine	55	0.0%
Fentanyl	378	0.3%
Hydrocodone	92,200	61.8%
Hydromorphone	3,246	2.2%
Morphine	1,804	1.2%
Oxycodone	76,105	51.0%
Oxymorphone	28	0.0%
Other C-II Opioid Analgesics	832	0.6%

Table 1i. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18-25 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

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	13.9	19.2
Mean number of emergency room encounters	0.9	2.1
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	3.2	9.6
Mean number of filled prescriptions	14.3	16.6
Mean number of generics dispensed	7.1	5.0
Mean number of unique drug classes dispensed	6.3	4.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: G8918 — Other Acute Postprocedural Pain	19,123	12.8%
Diagnosis 2: Z01818 — Encounter For Other Preprocedural Examination	17,694	11.9%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	11,985	8.0%
Diagnosis 4: J3501 — Chronic Tonsillitis	11,223	7.5%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	8,889	6.0%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	429,678	
Healthcare Payor Status	Number	Percent
Commercial payor patients	391,399	91.1%
Medicare Members	38,279	8.9%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	34.9	5.2
Age	Number	Percent
26-29 years	96,331	22.4%
30-39 years	241,372	56.2%
40-44 years	91,975	21.4%
Sex		
Female	241,418	56.2%
Male	188,260	43.8%
Race ¹		
American Indian or Alaska Native	670	0.2%
Asian	2,952	0.7%
Black or African American	6,167	1.4%
Multi-racial	7,626	1.8%
Native Hawaiian or Other Pacific Islander	127	0.0%
Unknown	329,843	76.8%
White	82,293	19.2%
Hispanic origin		
Yes	7,074	1.6%
No	51,767	12.0%
Unknown	370,837	86.3%
Year		
2017	60,211	14.0%
2018	59,850	13.9%
2019	58,606	13.6%
2020	59,678	13.9%
2021	81,428	19.0%
2022	88,457	20.6%
2023	21,448	5.0%
Census Bureau Region ²		
Invalid	5,783	1.4%
Midwest	96,701	22.5%
Northeast	60,688	14.1%
South	178,452	41.5%
West	87,750	20.4%
Missing	264	0.1%
Other	40	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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	0.7	1.2
Combined comorbidity score categories		
<=0	223,429	52.0%
1-2	179,544	41.8%
3-4	19,912	4.6%
5+	6,793	1.6%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	429,678	100.0%
ADHD Non-Stimulant Medication on index date or year prior	23,282	5.4%
Schedule II (C-II) Analgesic on index date or year prior	76,235	17.7%
Medication for Opioid-Related Disorders on index date or year prior	7,202	1.7%
Antidepressant Medication on index date or year prior	211,985	49.3%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	136,158	31.7%
Antipsychotic Medication on index date or year prior	46,196	10.8%
Mood Stabilizers on index date or year prior	36,702	8.5%
Cancer on index date or year prior	4,385	1.0%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	177,276	41.3%
ADHD on index date or year prior	246,094	57.3%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	4,532	1.1%
Narcolepsy on index date or year prior	3,769	0.9%
Binge-Eating Disorder on index date or year prior	9,697	2.3%
ADHD on index date or 30 days Prior	216,503	50.4%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,863	0.4%
Narcolepsy on index date or 30 days Prior	2,453	0.6%
Binge-Eating Disorder on index date or 30 days Prior	8,393	2.0%
Hypertension on index date or year prior	52,130	12.1%
Coronary artery disease on index date or year prior	3,461	0.8%
Cardiac arrhythmia on index date or year prior	21,123	4.9%
Cardiomyopathy on index date or year prior	1,000	0.2%
Cardiac structural abnormality on index date or year prior	1,599	0.4%
All other diseases of the circulatory system on index date or year prior	12,710	3.0%
Epilepsy or recurrent seizures on index date or year prior	6,332	1.5%
Other seizure or convulsions on index date or year prior	5,990	1.4%
Depression on index date or year prior	146,242	34.0%
Anxiety on index date or year prior	203,312	47.3%
Bipolar Disorder on index date or year prior	35,271	8.2%
Sleep Disorder on index date or year prior	84,184	19.6%
Psychotic Disorder on index date or year prior	9,862	2.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	30,070	7.0%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number	Percent ¹
Manic Episode on index date or year prior	835	0.2%
Autistic Disorder on index date or year prior	3,942	0.9%
Any Substance-Related Disorders on index date or year prior	74,228	17.3%
Opioid-Related Disorders on index date or year prior	15,398	3.6%
Stimulant-Related Disorders on index date or year prior	6,846	1.6%
Cocaine-Related Disorders on index date or year prior	3,108	0.7%
Other Stimulant-Related Disorders on index date or year prior	4,624	1.1%
Alcohol-Related Disorders on index date or year prior	16,032	3.7%
Cannabis-Related Disorders on index date or year prior	10,900	2.5%
Tobacco-Related Disorders on index date or year prior	52,710	12.3%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	13,327	3.1%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,088	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	686	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	193	0.0%
Intentional Poisoning by Broad Category on index date or year prior	1,510	0.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	173,506	40.4%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	204,529	47.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,577	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	729	0.2%
At least One Encounter in the Emergency Department in Year Prior	87,418	20.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	33,810	7.9%
At least One Encounter in the Outpatient Care Setting in Year Prior	411,178	95.7%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	219,997	51.2%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	85,936	20.0%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	50,312	11.7%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	50,691	11.8%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	18,303	4.3%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	33,102	7.7%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	23,268	5.4%

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 January 1, 2017 to March 31, 2023

ADHD 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	1,052	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	1,479	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	63	0.0%
Dextroamphetamine Single-entity Products Immediate Release	6,124	1.4%
Dextroamphetamine Single-entity Products Extended Release	4,247	1.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	222,934	51.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	165,316	38.5%
Lisdexamfetamine Extended Release	109,970	25.6%
Methamphetamine Single-entity Products Immediate Release	78	0.0%
Methylphenidate Single-entity Products Immediate Release	49,641	11.6%
Methylphenidate Single-entity Products Extended Release Oral Solid	54,547	12.7%
Methylphenidate Single-entity Products Extended Release Oral Liquid	60	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	272	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	5,725	1.3%
Dexmethylphenidate Single-entity Products Extended Release	8,436	2.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	892	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	265,492	61.8%
Any ADHD Stimulant API Extended Release	285,205	66.4%
Atomoxetine Immediate Release	16,666	3.9%
Guanfacine Extended Release	4,972	1.2%
Viloxazine Extended Release	499	0.1%
Clonidine Extended Release	924	0.2%
Any ADHD Non-Stimulant API Extended Release	6,239	1.5%
Codeine	43	0.0%
Fentanyl	940	0.2%
Hydrocodone	60,426	14.1%
Hydromorphone	3,499	0.8%
Morphine	2,428	0.6%
Oxycodone	48,321	11.2%
Oxymorphone	202	0.0%
Other C-II Opioid Analgesics	1,353	0.3%

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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 26-44 Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	14.3	16.8
Mean number of emergency room encounters	0.4	1.5
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	3.6	7.8
Mean number of filled prescriptions	19.5	22.9
Mean number of generics dispensed	7.1	5.5
Mean number of unique drug classes dispensed	6.6	4.9
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	99,355	23.1%
Diagnosis 2: F411 — Generalized Anxiety Disorder	74,643	17.4%
Diagnosis 3: F909 — Attention--Deficit Hyperactivity Disorder Unspecified	65,645	15.3%
Diagnosis 4: F902 — Attention--Deficit Hyperactivity Disorder Combined Type	54,044	12.6%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	104,927	
Healthcare Payor Status	Number	Percent
Commercial payor patients	78,082	74.4%
Medicare Members	26,845	25.6%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	35.5	5.3
Age	Number	Percent
26-29 years	20,538	19.6%
30-39 years	58,647	55.9%
40-44 years	25,742	24.5%
Sex		
Female	56,759	54.1%
Male	48,168	45.9%
Race ¹		
American Indian or Alaska Native	392	0.4%
Asian	862	0.8%
Black or African American	4,999	4.8%
Multi-racial	1,602	1.5%
Native Hawaiian or Other Pacific Islander	31	0.0%
Unknown	66,473	63.4%
White	30,568	29.1%
Hispanic origin		
Yes	2,580	2.5%
No	28,660	27.3%
Unknown	73,687	70.2%
Year		
2017	11,359	10.8%
2018	12,531	11.9%
2019	13,424	12.8%
2020	13,980	13.3%
2021	19,900	19.0%
2022	25,576	24.4%
2023	8,157	7.8%
Census Bureau Region ²		
Invalid	1,151	1.1%
Midwest	26,102	24.9%
Northeast	15,021	14.3%
South	42,365	40.4%
West	20,240	19.3%
Missing	37	0.0%
Other	11	0.0%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.5	1.9
Combined comorbidity score categories		
<=0	36,401	34.7%
1-2	50,538	48.2%
3-4	10,444	10.0%
5+	7,544	7.2%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	29,720	28.3%
ADHD Non-Stimulant Medication on index date or year prior	104,927	100.0%
Schedule II (C-II) Analgesic on index date or year prior	22,914	21.8%
Medication for Opioid-Related Disorders on index date or year prior	4,083	3.9%
Antidepressant Medication on index date or year prior	66,706	63.6%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	45,086	43.0%
Antipsychotic Medication on index date or year prior	26,468	25.2%
Mood Stabilizers on index date or year prior	18,948	18.1%
Cancer on index date or year prior	1,158	1.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	51,941	49.5%
ADHD on index date or year prior	55,320	52.7%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	3,127	3.0%
Narcolepsy on index date or year prior	454	0.4%
Binge-Eating Disorder on index date or year prior	834	0.8%
ADHD on index date or 30 days Prior	45,613	43.5%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,310	1.2%
Narcolepsy on index date or 30 days Prior	179	0.2%
Binge-Eating Disorder on index date or 30 days Prior	443	0.4%
Hypertension on index date or year prior	25,100	23.9%
Coronary artery disease on index date or year prior	3,798	3.6%
Cardiac arrhythmia on index date or year prior	12,330	11.8%
Cardiomyopathy on index date or year prior	1,385	1.3%
Cardiac structural abnormality on index date or year prior	753	0.7%
All other diseases of the circulatory system on index date or year prior	6,692	6.4%
Epilepsy or recurrent seizures on index date or year prior	4,485	4.3%
Other seizure or convulsions on index date or year prior	4,366	4.2%
Depression on index date or year prior	47,784	45.5%
Anxiety on index date or year prior	63,412	60.4%
Bipolar Disorder on index date or year prior	19,206	18.3%
Sleep Disorder on index date or year prior	28,625	27.3%
Psychotic Disorder on index date or year prior	9,231	8.8%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	14,156	13.5%
Manic Episode on index date or year prior	691	0.7%
Autistic Disorder on index date or year prior	3,006	2.9%
Any Substance-Related Disorders on index date or year prior	35,405	33.7%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Health Characteristics	Number	Percent
Opioid-Related Disorders on index date or year prior	10,114	9.6%
Stimulant-Related Disorders on index date or year prior	7,807	7.4%
Cocaine-Related Disorders on index date or year prior	3,371	3.2%
Other Stimulant-Related Disorders on index date or year prior	5,860	5.6%
Alcohol-Related Disorders on index date or year prior	10,688	10.2%
Cannabis-Related Disorders on index date or year prior	8,811	8.4%
Tobacco-Related Disorders on index date or year prior	25,136	24.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	6,991	6.7%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,070	1.0%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	683	0.7%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	267	0.3%
Intentional Poisoning by Broad Category on index date or year prior	1,259	1.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	49,141	46.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	59,053	56.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,383	1.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	693	0.7%
At least One Encounter in the Emergency Department in Year Prior	35,456	33.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	16,068	15.3%
At least One Encounter in the Outpatient Care Setting in Year Prior	102,332	97.5%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	61,985	59.1%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	19,209	18.3%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	15,063	14.4%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	24,597	23.4%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	27,085	25.8%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	9,323	8.9%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	7,259	6.9%

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 January 1, 2017 to March 31, 2023

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	133	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	184	0.2%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	943	0.9%
Dextroamphetamine Single-entity Products Extended Release	711	0.7%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	19,282	18.4%
Amphetamine/Dextroamphetamine Combination Products Extended Release	16,395	15.6%
Lisdexamfetamine Extended Release	13,029	12.4%
Methamphetamine Single-entity Products Immediate Release	33	0.0%
Methylphenidate Single-entity Products Immediate Release	5,520	5.3%
Methylphenidate Single-entity Products Extended Release Oral Solid	7,442	7.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	12	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	94	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	999	1.0%
Dexmethylphenidate Single-entity Products Extended Release	1,529	1.5%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	193	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	24,271	23.1%
Any ADHD Stimulant API Extended Release	31,094	29.6%
Atomoxetine Immediate Release	79,159	75.4%
Guanfacine Extended Release	16,681	15.9%
Viloxazine Extended Release	1,371	1.3%
Clonidine Extended Release	12,637	12.0%
Any ADHD Non-Stimulant API Extended Release	30,175	28.8%
Codeine	14	0.0%
Fentanyl	587	0.6%
Hydrocodone	16,760	16.0%
Hydromorphone	1,632	1.6%
Morphine	1,134	1.1%
Oxycodone	14,315	13.6%
Oxymorphone	99	0.1%
Other C-II Opioid Analgesics	573	0.5%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	24.6	34.6
Mean number of emergency room encounters	1.1	3.2
Mean number of inpatient hospital encounters	0.3	1.3
Mean number of non-acute institutional encounters	0.1	0.6
Mean number of other ambulatory encounters	7.3	15.6
Mean number of filled prescriptions	34.0	32.6
Mean number of generics dispensed	10.2	6.9
Mean number of unique drug classes dispensed	9.3	5.9

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 26-44 Years		
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F411 — Generalized Anxiety Disorder	24,552	23.4%
Diagnosis 2: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	18,900	18.0%
Diagnosis 3: F419 — Anxiety Disorder Unspecified	16,251	15.5%
Diagnosis 4: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	15,299	14.6%

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 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Patient Characteristics	Number	
Unique patients	753,490	
Healthcare Payor Status	Number	Percent
Commercial payor patients	617,938	82.0%
Medicare Members	135,552	18.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	37.0	5.1
Age	Number	Percent
26-29 years	90,969	12.1%
30-39 years	399,215	53.0%
40-44 years	263,306	34.9%
Sex		
Female	444,738	59.0%
Male	308,752	41.0%
Race ¹		
American Indian or Alaska Native	2,488	0.3%
Asian	5,703	0.8%
Black or African American	40,590	5.4%
Multi-racial	8,527	1.1%
Native Hawaiian or Other Pacific Islander	278	0.0%
Unknown	550,019	73.0%
White	145,885	19.4%
Hispanic origin		
Yes	16,818	2.2%
No	147,282	19.5%
Unknown	589,390	78.2%
Year		
2017	192,027	25.5%
2018	149,241	19.8%
2019	117,251	15.6%
2020	99,282	13.2%
2021	95,553	12.7%
2022	81,096	10.8%
2023	19,040	2.5%
Census Bureau Region ²		
Invalid	5,951	0.8%
Midwest	190,445	25.3%
Northeast	64,882	8.6%
South	326,152	43.3%
West	165,352	21.9%
Missing	607	0.1%
Other	101	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 January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.2	2.0
Combined comorbidity score categories		
<=0	394,930	52.4%
1-2	247,866	32.9%
3-4	57,015	7.6%
5+	53,679	7.1%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	49,468	6.6%
ADHD Non-Stimulant Medication on index date or year prior	5,468	0.7%
Schedule II (C-II) Analgesic on index date or year prior	753,490	100.0%
Medication for Opioid-Related Disorders on index date or year prior	5,699	0.8%
Antidepressant Medication on index date or year prior	247,485	32.8%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	221,879	29.4%
Antipsychotic Medication on index date or year prior	66,342	8.8%
Mood Stabilizers on index date or year prior	44,832	5.9%
Cancer on index date or year prior	26,200	3.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	512,063	68.0%
ADHD on index date or year prior	44,319	5.9%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	5,658	0.8%
Narcolepsy on index date or year prior	1,907	0.3%
Binge-Eating Disorder on index date or year prior	1,686	0.2%
ADHD on index date or 30 days Prior	18,323	2.4%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	1,488	0.2%
Narcolepsy on index date or 30 days Prior	650	0.1%
Binge-Eating Disorder on index date or 30 days Prior	571	0.1%
Hypertension on index date or year prior	186,359	24.7%
Coronary artery disease on index date or year prior	27,466	3.6%
Cardiac arrhythmia on index date or year prior	77,881	10.3%
Cardiomyopathy on index date or year prior	9,719	1.3%
Cardiac structural abnormality on index date or year prior	7,091	0.9%
All other diseases of the circulatory system on index date or year prior	59,232	7.9%
Epilepsy or recurrent seizures on index date or year prior	26,010	3.5%
Other seizure or convulsions on index date or year prior	23,588	3.1%
Depression on index date or year prior	160,300	21.3%
Anxiety on index date or year prior	225,406	29.9%
Bipolar Disorder on index date or year prior	46,464	6.2%
Sleep Disorder on index date or year prior	156,412	20.8%
Psychotic Disorder on index date or year prior	20,171	2.7%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	33,484	4.4%
Manic Episode on index date or year prior	1,039	0.1%

Table 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years		
Health Characteristics	Number	Percent
Autistic Disorder on index date or year prior	3,204	0.4%
Any Substance-Related Disorders on index date or year prior	214,254	28.4%
Opioid-Related Disorders on index date or year prior	24,828	3.3%
Stimulant-Related Disorders on index date or year prior	10,720	1.4%
Cocaine-Related Disorders on index date or year prior	5,059	0.7%
Other Stimulant-Related Disorders on index date or year prior	6,894	0.9%
Alcohol-Related Disorders on index date or year prior	26,211	3.5%
Cannabis-Related Disorders on index date or year prior	21,908	2.9%
Tobacco-Related Disorders on index date or year prior	188,481	25.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	44,460	5.9%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	2,061	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,223	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	433	0.1%
Intentional Poisoning by Broad Category on index date or year prior	4,192	0.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	706,339	93.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	734,130	97.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	4,612	0.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	1,339	0.2%
At least One Encounter in the Emergency Department in Year Prior	315,921	41.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	194,382	25.8%
At least One Encounter in the Outpatient Care Setting in Year Prior	736,897	97.8%
Medical Product Use - Concurrent Use	Number	Percent
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	196,466	26.1%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	87,359	11.6%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	45,359	6.0%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	51,851	6.9%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	38,154	5.1%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	4,448	0.6%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	36,309	4.8%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	4,007	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 January 1, 2017 to March 31, 2023

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	156	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	228	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	1,011	0.1%
Dextroamphetamine Single-entity Products Extended Release	681	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	37,359	5.0%
Amphetamine/Dextroamphetamine Combination Products Extended Release	22,804	3.0%
Lisdexamfetamine Extended Release	16,554	2.2%
Methamphetamine Single-entity Products Immediate Release	18	0.0%
Methylphenidate Single-entity Products Immediate Release	6,977	0.9%
Methylphenidate Single-entity Products Extended Release Oral Solid	6,339	0.8%
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	732	0.1%
Dexmethylphenidate Single-entity Products Extended Release	1,101	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	136	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	43,399	5.8%
Any ADHD Stimulant API Extended Release	40,028	5.3%
Atomoxetine Immediate Release	7,447	1.0%
Guanfacine Extended Release	1,554	0.2%
Viloxazine Extended Release	179	0.0%
Clonidine Extended Release	2,792	0.4%
Any ADHD Non-Stimulant API Extended Release	4,466	0.6%
Codeine	482	0.1%
Fentanyl	5,374	0.7%
Hydrocodone	482,530	64.0%
Hydromorphone	27,771	3.7%
Morphine	16,552	2.2%
Oxycodone	410,903	54.5%
Oxymorphone	312	0.0%
Other C-II Opioid Analgesics	7,279	1.0%

Table 11. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 26-44 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

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	19.5	27.3
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	5.2	12.3
Mean number of filled prescriptions	24.3	26.9
Mean number of generics dispensed	9.1	6.1
Mean number of unique drug classes dispensed	8.1	5.1
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: Z01818 — Encounter For Other Preprocedural Examination	107,380	14.3%
Diagnosis 2: I10 — Essential Primary Hypertension	106,317	14.1%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	100,749	13.4%
Diagnosis 4: M545 — Low Back Pain	69,508	9.2%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	65,777	8.7%

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 1m. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	ADHD Stimulant Medication Patients of Age 45-64 Years	
Patient Characteristics	Number	
Unique patients	228,595	
Healthcare Payor Status	Number	Percent
Commercial payor patients	179,991	78.7%
Medicare Members	48,604	21.3%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	53.3	5.4
	Number	Percent
Age		
45-54 years	143,839	62.9%
55-64 years	84,756	37.1%
Sex		
Female	144,676	63.3%
Male	83,919	36.7%
Race ¹		
American Indian or Alaska Native	514	0.2%
Asian	810	0.4%
Black or African American	4,922	2.2%
Multi-racial	2,848	1.2%
Native Hawaiian or Other Pacific Islander	88	0.0%
Unknown	144,178	63.1%
White	75,235	32.9%
Hispanic origin		
Yes	2,612	1.1%
No	63,020	27.6%
Unknown	162,963	71.3%
Year		
2017	39,486	17.3%
2018	37,422	16.4%
2019	35,330	15.5%
2020	31,687	13.9%
2021	35,976	15.7%
2022	39,059	17.1%
2023	9,635	4.2%
Census Bureau Region ²		
Invalid	1,936	0.9%
Midwest	50,705	22.2%
Northeast	33,392	14.6%
South	100,031	43.8%
West	42,374	18.5%
Missing	126	0.1%
Other	31	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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Stimulant Medication Patients of Age 45-64 Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.4	2.1
Combined comorbidity score categories		
<=0	93,699	41.0%
1-2	95,338	41.7%
3-4	22,649	9.9%
5+	16,909	7.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	228,595	100.0%
ADHD Non-Stimulant Medication on index date or year prior	10,161	4.4%
Schedule II (C-II) Analgesic on index date or year prior	70,942	31.0%
Medication for Opioid-Related Disorders on index date or year prior	4,653	2.0%
Antidepressant Medication on index date or year prior	145,411	63.6%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	107,735	47.1%
Antipsychotic Medication on index date or year prior	41,193	18.0%
Mood Stabilizers on index date or year prior	27,766	12.1%
Cancer on index date or year prior	12,715	5.6%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	146,044	63.9%
ADHD on index date or year prior	98,372	43.0%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	2,277	1.0%
Narcolepsy on index date or year prior	3,466	1.5%
Binge-Eating Disorder on index date or year prior	6,591	2.9%
ADHD on index date or 30 days Prior	82,866	36.3%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	891	0.4%
Narcolepsy on index date or 30 days Prior	2,072	0.9%
Binge-Eating Disorder on index date or 30 days Prior	5,783	2.5%
Hypertension on index date or year prior	88,150	38.6%
Coronary artery disease on index date or year prior	15,708	6.9%
Cardiac arrhythmia on index date or year prior	20,309	8.9%
Cardiomyopathy on index date or year prior	2,553	1.1%
Cardiac structural abnormality on index date or year prior	1,347	0.6%
All other diseases of the circulatory system on index date or year prior	18,198	8.0%
Epilepsy or recurrent seizures on index date or year prior	5,581	2.4%
Other seizure or convulsions on index date or year prior	5,533	2.4%
Depression on index date or year prior	101,653	44.5%
Anxiety on index date or year prior	112,577	49.2%
Bipolar Disorder on index date or year prior	26,877	11.8%
Sleep Disorder on index date or year prior	84,214	36.8%
Psychotic Disorder on index date or year prior	7,206	3.2%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	19,191	8.4%
Manic Episode on index date or year prior	678	0.3%
Autistic Disorder on index date or year prior	741	0.3%

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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Stimulant Medication Patients of Age 45-64 Years	
	Number	Percent
Any Substance-Related Disorders on index date or year prior	61,291	26.8%
Opioid-Related Disorders on index date or year prior	15,009	6.6%
Stimulant-Related Disorders on index date or year prior	3,969	1.7%
Cocaine-Related Disorders on index date or year prior	1,816	0.8%
Other Stimulant-Related Disorders on index date or year prior	2,534	1.1%
Alcohol-Related Disorders on index date or year prior	11,197	4.9%
Cannabis-Related Disorders on index date or year prior	4,287	1.9%
Tobacco-Related Disorders on index date or year prior	46,790	20.5%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	12,248	5.4%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	878	0.4%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	550	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	105	0.0%
Intentional Poisoning by Broad Category on index date or year prior	2,034	0.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	121,823	53.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	138,811	60.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,164	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	478	0.2%
At least One Encounter in the Emergency Department in Year Prior	59,503	26.0%
At least One Encounter in the Inpatient Care Setting in Year Prior	22,878	10.0%
At least One Encounter in the Outpatient Care Setting in Year Prior	225,169	98.5%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	146,255	64.0%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	72,015	31.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	40,823	17.9%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	41,511	18.2%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	8,194	3.6%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	50,356	22.0%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	40,131	17.6%

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 January 1, 2017 to March 31, 2023

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	481	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	651	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	41	0.0%
Dextroamphetamine Single-entity Products Immediate Release	3,527	1.5%
Dextroamphetamine Single-entity Products Extended Release	2,147	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	107,855	47.2%
Amphetamine/Dextroamphetamine Combination Products Extended Release	65,869	28.8%
Lisdexamfetamine Extended Release	51,977	22.7%
Methamphetamine Single-entity Products Immediate Release	92	0.0%
Methylphenidate Single-entity Products Immediate Release	44,430	19.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	26,112	11.4%
Methylphenidate Single-entity Products Extended Release Oral Liquid	28	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	133	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	3,145	1.4%
Dexmethylphenidate Single-entity Products Extended Release	3,911	1.7%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	361	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	148,223	64.8%
Any ADHD Stimulant API Extended Release	128,654	56.3%
Atomoxetine Immediate Release	8,153	3.6%
Guanfacine Extended Release	1,930	0.8%
Viloxazine Extended Release	242	0.1%
Clonidine Extended Release	804	0.4%
Any ADHD Non-Stimulant API Extended Release	2,928	1.3%
Codeine	72	0.0%
Fentanyl	2,945	1.3%
Hydrocodone	55,742	24.4%
Hydromorphone	5,531	2.4%
Morphine	6,204	2.7%
Oxycodone	49,201	21.5%
Oxymorphone	364	0.2%
Other C-II Opioid Analgesics	2,774	1.2%

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 January 1, 2017 to March 31, 2023

	ADHD Stimulant Medication Patients of Age 45-64 Years	
	Mean	Standard Deviation
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	21.0	21.1
Mean number of emergency room encounters	0.6	1.7
Mean number of inpatient hospital encounters	0.2	0.6
Mean number of non-acute institutional encounters	0.0	0.4
Mean number of other ambulatory encounters	5.2	11.5
Mean number of filled prescriptions	38.3	34.3
Mean number of generics dispensed	11.0	7.0
Mean number of unique drug classes dispensed	10.1	6.1
Most Frequent Utilization in Month Prior (-30, 0)		
	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	39,122	17.1%
Diagnosis 2: I10 — Essential Primary Hypertension	36,376	15.9%
Diagnosis 3: F411 — Generalized Anxiety Disorder	33,344	14.6%
Diagnosis 4: F419 — Anxiety Disorder Unspecified	25,268	11.1%
Diagnosis 5: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	25,240	11.0%

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.

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 January 1, 2017 to March 31, 2023

	ADHD Non-Stimulant Medication Patients of Age 45-64 Years	
Patient Characteristics	Number	
Unique patients	87,845	
Healthcare Payor Status	Number	Percent
Commercial payor patients	49,691	56.6%
Medicare Members	38,154	43.4%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	54.5	5.6
	Number	Percent
Age		
45-54 years	46,685	53.1%
55-64 years	41,160	46.9%
Sex		
Female	51,127	58.2%
Male	36,718	41.8%
Race ¹		
American Indian or Alaska Native	509	0.6%
Asian	623	0.7%
Black or African American	11,115	12.7%
Multi-racial	726	0.8%
Native Hawaiian or Other Pacific Islander	30	0.0%
Unknown	38,749	44.1%
White	36,093	41.1%
Hispanic origin		
Yes	2,094	2.4%
No	43,236	49.2%
Unknown	42,515	48.4%
Year		
2017	13,742	15.6%
2018	13,942	15.9%
2019	14,018	16.0%
2020	12,270	14.0%
2021	13,687	15.6%
2022	15,483	17.6%
2023	4,703	5.4%
Census Bureau Region ²		
Invalid	488	0.6%
Midwest	19,926	22.7%
Northeast	11,951	13.6%
South	39,746	45.3%
West	15,676	17.9%
Missing	33	0.0%
Other	25	0.0%

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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Non-Stimulant Medication Patients of Age 45-64 Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.9	3.2
Combined comorbidity score categories		
<=0	22,528	25.6%
1-2	31,296	35.6%
3-4	13,064	14.9%
5+	20,957	23.9%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	16,845	19.2%
ADHD Non-Stimulant Medication on index date or year prior	87,845	100.0%
Schedule II (C-II) Analgesic on index date or year prior	35,252	40.1%
Medication for Opioid-Related Disorders on index date or year prior	2,762	3.1%
Antidepressant Medication on index date or year prior	56,632	64.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	43,121	49.1%
Antipsychotic Medication on index date or year prior	21,509	24.5%
Mood Stabilizers on index date or year prior	13,807	15.7%
Cancer on index date or year prior	4,724	5.4%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	64,743	73.7%
ADHD on index date or year prior	26,635	30.3%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,998	2.3%
Narcolepsy on index date or year prior	430	0.5%
Binge-Eating Disorder on index date or year prior	448	0.5%
ADHD on index date or 30 days Prior	21,038	23.9%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	707	0.8%
Narcolepsy on index date or 30 days Prior	163	0.2%
Binge-Eating Disorder on index date or 30 days Prior	239	0.3%
Hypertension on index date or year prior	55,991	63.7%
Coronary artery disease on index date or year prior	17,973	20.5%
Cardiac arrhythmia on index date or year prior	17,932	20.4%
Cardiomyopathy on index date or year prior	4,088	4.7%
Cardiac structural abnormality on index date or year prior	963	1.1%
All other diseases of the circulatory system on index date or year prior	14,854	16.9%
Epilepsy or recurrent seizures on index date or year prior	5,379	6.1%
Other seizure or convulsions on index date or year prior	5,456	6.2%
Depression on index date or year prior	41,285	47.0%
Anxiety on index date or year prior	46,667	53.1%
Bipolar Disorder on index date or year prior	14,911	17.0%
Sleep Disorder on index date or year prior	39,490	45.0%
Psychotic Disorder on index date or year prior	7,469	8.5%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	9,640	11.0%
Manic Episode on index date or year prior	492	0.6%
Autistic Disorder on index date or year prior	689	0.8%
Any Substance-Related Disorders on index date or year prior	39,451	44.9%

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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Non-Stimulant Medication Patients of Age 45-64 Years	
	Number	Percent
Opioid-Related Disorders on index date or year prior	11,677	13.3%
Stimulant-Related Disorders on index date or year prior	4,833	5.5%
Cocaine-Related Disorders on index date or year prior	2,498	2.8%
Other Stimulant-Related Disorders on index date or year prior	2,982	3.4%
Alcohol-Related Disorders on index date or year prior	8,734	9.9%
Cannabis-Related Disorders on index date or year prior	4,332	4.9%
Tobacco-Related Disorders on index date or year prior	31,189	35.5%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	9,231	10.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	1,099	1.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	742	0.8%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	198	0.2%
Intentional Poisoning by Broad Category on index date or year prior	1,632	1.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	60,761	69.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	66,576	75.8%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	1,354	1.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	510	0.6%
At least One Encounter in the Emergency Department in Year Prior	38,803	44.2%
At least One Encounter in the Inpatient Care Setting in Year Prior	24,334	27.7%
At least One Encounter in the Outpatient Care Setting in Year Prior	87,277	99.4%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	53,587	61.0%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	22,491	25.6%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	15,012	17.1%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	19,872	22.6%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	13,623	15.5%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	25,104	28.6%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	20,589	23.4%

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 January 1, 2017 to March 31, 2023

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Non-Stimulant Medication Patients of Age 45-64 Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	50	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	67	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	429	0.5%
Dextroamphetamine Single-entity Products Extended Release	318	0.4%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	9,149	10.4%
Amphetamine/Dextroamphetamine Combination Products Extended Release	6,639	7.6%
Lisdexamfetamine Extended Release	5,133	5.8%
Methamphetamine Single-entity Products Immediate Release	17	0.0%
Methylphenidate Single-entity Products Immediate Release	3,266	3.7%
Methylphenidate Single-entity Products Extended Release Oral Solid	3,167	3.6%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	41	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	447	0.5%
Dexmethylphenidate Single-entity Products Extended Release	631	0.7%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	63	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	12,050	13.7%
Any ADHD Stimulant API Extended Release	13,019	14.8%
Atomoxetine Immediate Release	41,978	47.8%
Guanfacine Extended Release	8,507	9.7%
Viloxazine Extended Release	664	0.8%
Clonidine Extended Release	38,928	44.3%
Any ADHD Non-Stimulant API Extended Release	47,847	54.5%
Codeine	29	0.0%
Fentanyl	1,915	2.2%
Hydrocodone	24,627	28.0%
Hydromorphone	2,883	3.3%
Morphine	3,705	4.2%
Oxycodone	22,982	26.2%
Oxymorphone	276	0.3%
Other C-II Opioid Analgesics	1,523	1.7%

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 January 1, 2017 to March 31, 2023

	ADHD Non-Stimulant Medication Patients of Age 45-64 Years	
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	36.1	45.2
Mean number of emergency room encounters	1.4	3.5
Mean number of inpatient hospital encounters	0.7	1.6
Mean number of non-acute institutional encounters	0.2	0.8
Mean number of other ambulatory encounters	12.8	24.7
Mean number of filled prescriptions	57.2	44.1
Mean number of generics dispensed	14.9	8.0
Mean number of unique drug classes dispensed	13.3	6.7
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	34,337	39.1%
Diagnosis 2: Z79899 — Other Long Term Current Drug Therapy	13,186	15.0%
Diagnosis 3: F411 — Generalized Anxiety Disorder	12,956	14.7%
Diagnosis 4: E785 — Hyperlipidemia Unspecified	12,873	14.7%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	12,167	13.9%

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 1o. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	
Patient Characteristics	Number	
Unique patients	1,962,540	
Healthcare Payor Status	Number	Percent
Commercial payor patients	1,392,103	70.9%
Medicare Members	570,437	29.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	56.3	5.5
	Number	Percent
Age		
45-54 years	777,904	39.6%
55-64 years	1,184,636	60.4%
Sex		
Female	1,048,267	53.4%
Male	914,273	46.6%
Race ¹		
American Indian or Alaska Native	8,922	0.5%
Asian	10,791	0.5%
Black or African American	151,895	7.7%
Multi-racial	15,034	0.8%
Native Hawaiian or Other Pacific Islander	1,187	0.1%
Unknown	1,116,803	56.9%
White	657,908	33.5%
Hispanic origin		
Yes	36,011	1.8%
No	706,765	36.0%
Unknown	1,219,764	62.2%
Year		
2017	475,454	24.2%
2018	374,689	19.1%
2019	306,426	15.6%
2020	267,814	13.6%
2021	254,579	13.0%
2022	227,733	11.6%
2023	55,845	2.8%
Census Bureau Region ²		
Invalid	10,377	0.5%
Midwest	510,691	26.0%
Northeast	209,182	10.7%
South	851,155	43.4%
West	379,372	19.3%
Missing	1,236	0.1%
Other	527	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 January 1, 2017 to March 31, 2023

Health Characteristics	Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.1	2.9
Combined comorbidity score categories		
<=0	783,682	39.9%
1-2	603,419	30.7%
3-4	236,659	12.1%
5+	338,780	17.3%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	60,620	3.1%
ADHD Non-Stimulant Medication on index date or year prior	9,622	0.5%
Schedule II (C-II) Analgesic on index date or year prior	1,962,540	100.0%
Medication for Opioid-Related Disorders on index date or year prior	13,546	0.7%
Antidepressant Medication on index date or year prior	807,554	41.1%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	673,828	34.3%
Antipsychotic Medication on index date or year prior	207,248	10.6%
Mood Stabilizers on index date or year prior	114,177	5.8%
Cancer on index date or year prior	200,254	10.2%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	1,660,602	84.6%
ADHD on index date or year prior	48,175	2.5%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	11,799	0.6%
Narcolepsy on index date or year prior	4,438	0.2%
Binge-Eating Disorder on index date or year prior	2,578	0.1%
ADHD on index date or 30 days Prior	19,224	1.0%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	2,825	0.1%
Narcolepsy on index date or 30 days Prior	1,493	0.1%
Binge-Eating Disorder on index date or 30 days Prior	797	0.0%
Hypertension on index date or year prior	1,167,361	59.5%
Coronary artery disease on index date or year prior	341,946	17.4%
Cardiac arrhythmia on index date or year prior	331,198	16.9%
Cardiomyopathy on index date or year prior	76,319	3.9%
Cardiac structural abnormality on index date or year prior	21,020	1.1%
All other diseases of the circulatory system on index date or year prior	293,650	15.0%
Epilepsy or recurrent seizures on index date or year prior	70,596	3.6%
Other seizure or convulsions on index date or year prior	65,202	3.3%
Depression on index date or year prior	523,127	26.7%
Anxiety on index date or year prior	595,123	30.3%
Bipolar Disorder on index date or year prior	115,478	5.9%
Sleep Disorder on index date or year prior	688,495	35.1%
Psychotic Disorder on index date or year prior	60,829	3.1%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	68,507	3.5%
Manic Episode on index date or year prior	2,881	0.1%
Autistic Disorder on index date or year prior	2,675	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 January 1, 2017 to March 31, 2023

Health Characteristics	Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	
	Number	Percent
Any Substance-Related Disorders on index date or year prior	750,295	38.2%
Opioid-Related Disorders on index date or year prior	77,279	3.9%
Stimulant-Related Disorders on index date or year prior	27,373	1.4%
Cocaine-Related Disorders on index date or year prior	15,630	0.8%
Other Stimulant-Related Disorders on index date or year prior	13,840	0.7%
Alcohol-Related Disorders on index date or year prior	100,356	5.1%
Cannabis-Related Disorders on index date or year prior	41,367	2.1%
Tobacco-Related Disorders on index date or year prior	678,884	34.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	179,800	9.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	5,485	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	3,194	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,043	0.1%
Intentional Poisoning by Broad Category on index date or year prior	13,480	0.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	1,908,392	97.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	1,941,235	98.9%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	10,999	0.6%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	2,705	0.1%
At least One Encounter in the Emergency Department in Year Prior	799,969	40.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	559,692	28.5%
At least One Encounter in the Outpatient Care Setting in Year Prior	1,944,053	99.1%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	718,827	36.6%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	301,489	15.4%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	175,195	8.9%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	180,445	9.2%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	50,533	2.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	9,185	0.5%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	47,950	2.4%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	8,210	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 January 1, 2017 to March 31, 2023

Active Pharmaceutical Ingredients from Index until End of Patient's History	Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	109	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	170	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	1,310	0.1%
Dextroamphetamine Single-entity Products Extended Release	879	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	37,261	1.9%
Amphetamine/Dextroamphetamine Combination Products Extended Release	19,865	1.0%
Lisdexamfetamine Extended Release	14,818	0.8%
Methamphetamine Single-entity Products Immediate Release	46	0.0%
Methylphenidate Single-entity Products Immediate Release	13,304	0.7%
Methylphenidate Single-entity Products Extended Release Oral Solid	6,621	0.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	54	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	815	0.0%
Dexmethylphenidate Single-entity Products Extended Release	985	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	89	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	49,625	2.5%
Any ADHD Stimulant API Extended Release	37,770	1.9%
Atomoxetine Immediate Release	6,911	0.4%
Guanfacine Extended Release	1,337	0.1%
Viloxazine Extended Release	120	0.0%
Clonidine Extended Release	8,630	0.4%
Any ADHD Non-Stimulant API Extended Release	10,044	0.5%
Codeine	1,597	0.1%
Fentanyl	32,017	1.6%
Hydrocodone	1,291,451	65.8%
Hydromorphone	90,154	4.6%
Morphine	79,673	4.1%
Oxycodone	1,085,253	55.3%
Oxymorphone	1,002	0.1%
Other C-II Opioid Analgesics	22,875	1.2%

Table 10. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 45-64 Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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	24.0	29.4
Mean number of emergency room encounters	1.0	2.3
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	7.3	16.6
Mean number of filled prescriptions	39.2	35.0
Mean number of generics dispensed	11.9	6.7
Mean number of unique drug classes dispensed	10.5	5.6
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	732,532	37.3%
Diagnosis 2: Z01818 — Encounter For Other Preprocedural Examination	433,563	22.1%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	358,370	18.3%
Diagnosis 4: E785 — Hyperlipidemia Unspecified	348,025	17.7%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	282,992	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 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	ADHD Stimulant Medication Patients of Age 65+ Years	
Patient Characteristics	Number	
Unique patients	133,749	
Healthcare Payor Status	Number	Percent
Commercial payor patients	24,793	18.5%
Medicare Members	108,956	81.5%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	73.6	6.7
	Number	Percent
Age		
≥ 65 years	133,749	100.0%
Sex		
Female	77,484	57.9%
Male	56,265	42.1%
Race ¹		
American Indian or Alaska Native	269	0.2%
Asian	921	0.7%
Black or African American	3,482	2.6%
Multi-racial	195	0.1%
Native Hawaiian or Other Pacific Islander	92	0.1%
Unknown	13,712	10.3%
White	115,078	86.0%
Hispanic origin		
Yes	656	0.5%
No	115,384	86.3%
Unknown	17,709	13.2%
Year		
2017	22,653	16.9%
2018	22,387	16.7%
2019	21,362	16.0%
2020	19,752	14.8%
2021	20,146	15.1%
2022	21,649	16.2%
2023	5,800	4.3%
Census Bureau Region ²		
Invalid	392	0.3%
Midwest	28,470	21.3%
Northeast	24,747	18.5%
South	52,221	39.0%
West	27,817	20.8%
Missing	11	0.0%
Other	91	0.1%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Stimulant Medication Patients of Age 65+ Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.8	4.0
Combined comorbidity score categories		
<=0	26,164	19.6%
1-2	40,396	30.2%
3-4	23,062	17.2%
5+	44,127	33.0%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	133,749	100.0%
ADHD Non-Stimulant Medication on index date or year prior	2,212	1.7%
Schedule II (C-II) Analgesic on index date or year prior	47,773	35.7%
Medication for Opioid-Related Disorders on index date or year prior	920	0.7%
Antidepressant Medication on index date or year prior	93,679	70.0%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	61,765	46.2%
Antipsychotic Medication on index date or year prior	28,205	21.1%
Mood Stabilizers on index date or year prior	12,220	9.1%
Cancer on index date or year prior	29,522	22.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	104,994	78.5%
ADHD on index date or year prior	28,206	21.1%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	1,200	0.9%
Narcolepsy on index date or year prior	3,463	2.6%
Binge-Eating Disorder on index date or year prior	1,235	0.9%
ADHD on index date or 30 days Prior	20,849	15.6%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	388	0.3%
Narcolepsy on index date or 30 days Prior	2,123	1.6%
Binge-Eating Disorder on index date or 30 days Prior	999	0.7%
Hypertension on index date or year prior	93,930	70.2%
Coronary artery disease on index date or year prior	39,535	29.6%
Cardiac arrhythmia on index date or year prior	34,819	26.0%
Cardiomyopathy on index date or year prior	6,055	4.5%
Cardiac structural abnormality on index date or year prior	1,561	1.2%
All other diseases of the circulatory system on index date or year prior	28,770	21.5%
Epilepsy or recurrent seizures on index date or year prior	4,586	3.4%
Other seizure or convulsions on index date or year prior	5,287	4.0%
Depression on index date or year prior	72,553	54.2%
Anxiety on index date or year prior	58,670	43.9%
Bipolar Disorder on index date or year prior	9,402	7.0%
Sleep Disorder on index date or year prior	68,213	51.0%
Psychotic Disorder on index date or year prior	4,786	3.6%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	4,733	3.5%
Manic Episode on index date or year prior	346	0.3%
Autistic Disorder on index date or year prior	160	0.1%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Stimulant Medication Patients of Age 65+ Years	
	Number	Percent
Any Substance-Related Disorders on index date or year prior	46,539	34.8%
Opioid-Related Disorders on index date or year prior	7,071	5.3%
Stimulant-Related Disorders on index date or year prior	613	0.5%
Cocaine-Related Disorders on index date or year prior	183	0.1%
Other Stimulant-Related Disorders on index date or year prior	451	0.3%
Alcohol-Related Disorders on index date or year prior	5,085	3.8%
Cannabis-Related Disorders on index date or year prior	1,147	0.9%
Tobacco-Related Disorders on index date or year prior	39,374	29.4%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	5,104	3.8%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	411	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	278	0.2%
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	2,271	1.7%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	101,344	75.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	109,986	82.2%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	966	0.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	307	0.2%
At least One Encounter in the Emergency Department in Year Prior	46,912	35.1%
At least One Encounter in the Inpatient Care Setting in Year Prior	35,001	26.2%
At least One Encounter in the Outpatient Care Setting in Year Prior	133,381	99.7%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	91,228	68.2%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	39,079	29.2%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	19,296	14.4%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	22,665	16.9%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	1,795	1.3%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	34,580	25.9%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	26,802	20.0%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Active Pharmaceutical Ingredients from Index until End of Patient's History	ADHD Stimulant Medication Patients of Age 65+ Years	
	Number	Percent
Amphetamine Single-entity Products Immediate Release	80	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	74	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	2,860	2.1%
Dextroamphetamine Single-entity Products Extended Release	1,402	1.0%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	46,422	34.7%
Amphetamine/Dextroamphetamine Combination Products Extended Release	18,090	13.5%
Lisdexamfetamine Extended Release	7,066	5.3%
Methamphetamine Single-entity Products Immediate Release	27	0.0%
Methylphenidate Single-entity Products Immediate Release	70,878	53.0%
Methylphenidate Single-entity Products Extended Release Oral Solid	8,270	6.2%
Methylphenidate Single-entity Products Extended Release Oral Liquid	16	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	50	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	1,742	1.3%
Dexmethylphenidate Single-entity Products Extended Release	1,166	0.9%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	22	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	115,147	86.1%
Any ADHD Stimulant API Extended Release	32,762	24.5%
Atomoxetine Immediate Release	2,130	1.6%
Guanfacine Extended Release	305	0.2%
Viloxazine Extended Release	25	0.0%
Clonidine Extended Release	696	0.5%
Any ADHD Non-Stimulant API Extended Release	1,015	0.8%
Codeine	80	0.1%
Fentanyl	3,443	2.6%
Hydrocodone	37,007	27.7%
Hydromorphone	4,084	3.1%
Morphine	6,987	5.2%
Oxycodone	32,442	24.3%
Oxymorphone	98	0.1%
Other C-II Opioid Analgesics	1,720	1.3%

Table 1p. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	ADHD Stimulant Medication Patients of Age 65+ Years	
	Mean	Standard Deviation
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	33.2	27.2
Mean number of emergency room encounters	0.7	1.5
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	0.2	0.7
Mean number of other ambulatory encounters	11.9	20.9
Mean number of filled prescriptions	45.6	36.0
Mean number of generics dispensed	13.6	7.0
Mean number of unique drug classes dispensed	12.5	6.0
Most Frequent Utilization in Month Prior (-30, 0)		
	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	43,701	32.7%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	20,347	15.2%
Diagnosis 3: Z79899 — Other Long Term Current Drug Therapy	18,751	14.0%
Diagnosis 4: R5383 — Other Fatigue	18,420	13.8%
Diagnosis 5: F329 — Major Depressive Disorder Single Episode Unspecified	14,929	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 1q. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Patient Characteristics	Number	
Unique patients	131,814	
Healthcare Payor Status	Number	Percent
Commercial payor patients	23,952	18.2%
Medicare Members	107,862	81.8%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	77.3	8.0
	Number	Percent
Age		
≥ 65 years	131,814	100.0%
Sex		
Female	88,897	67.4%
Male	42,917	32.6%
Race ¹		
American Indian or Alaska Native	580	0.4%
Asian	3,412	2.6%
Black or African American	21,364	16.2%
Multi-racial	97	0.1%
Native Hawaiian or Other Pacific Islander	140	0.1%
Unknown	13,806	10.5%
White	92,415	70.1%
Hispanic origin		
Yes	3,047	2.3%
No	113,904	86.4%
Unknown	14,863	11.3%
Year		
2017	22,017	16.7%
2018	22,763	17.3%
2019	22,281	16.9%
2020	19,773	15.0%
2021	20,551	15.6%
2022	19,023	14.4%
2023	5,406	4.1%
Census Bureau Region ²		
Invalid	268	0.2%
Midwest	23,590	17.9%
Northeast	19,142	14.5%
South	62,469	47.4%
West	26,230	19.9%
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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	5.3	4.1
Combined comorbidity score categories		
<=0	15,608	11.8%
1-2	24,766	18.8%
3-4	23,743	18.0%
5+	67,697	51.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	5,078	3.9%
ADHD Non-Stimulant Medication on index date or year prior	131,814	100.0%
Schedule II (C-II) Analgesic on index date or year prior	39,730	30.1%
Medication for Opioid-Related Disorders on index date or year prior	611	0.5%
Antidepressant Medication on index date or year prior	62,650	47.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	46,195	35.0%
Antipsychotic Medication on index date or year prior	17,130	13.0%
Mood Stabilizers on index date or year prior	8,538	6.5%
Cancer on index date or year prior	18,982	14.4%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	108,385	82.2%
ADHD on index date or year prior	7,366	5.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	2,601	2.0%
Narcolepsy on index date or year prior	347	0.3%
Binge-Eating Disorder on index date or year prior	84	0.1%
ADHD on index date or 30 days Prior	5,549	4.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	875	0.7%
Narcolepsy on index date or 30 days Prior	135	0.1%
Binge-Eating Disorder on index date or 30 days Prior	45	0.0%
Hypertension on index date or year prior	124,613	94.5%
Coronary artery disease on index date or year prior	65,449	49.7%
Cardiac arrhythmia on index date or year prior	55,399	42.0%
Cardiomyopathy on index date or year prior	9,798	7.4%
Cardiac structural abnormality on index date or year prior	2,112	1.6%
All other diseases of the circulatory system on index date or year prior	38,312	29.1%
Epilepsy or recurrent seizures on index date or year prior	7,046	5.3%
Other seizure or convulsions on index date or year prior	8,140	6.2%
Depression on index date or year prior	46,648	35.4%
Anxiety on index date or year prior	49,287	37.4%
Bipolar Disorder on index date or year prior	5,386	4.1%
Sleep Disorder on index date or year prior	63,309	48.0%
Psychotic Disorder on index date or year prior	9,448	7.2%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	2,401	1.8%
Manic Episode on index date or year prior	330	0.3%
Autistic Disorder on index date or year prior	119	0.1%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	48,550	36.8%
Opioid-Related Disorders on index date or year prior	7,425	5.6%
Stimulant-Related Disorders on index date or year prior	817	0.6%
Cocaine-Related Disorders on index date or year prior	389	0.3%
Other Stimulant-Related Disorders on index date or year prior	471	0.4%
Alcohol-Related Disorders on index date or year prior	4,661	3.5%
Cannabis-Related Disorders on index date or year prior	1,063	0.8%
Tobacco-Related Disorders on index date or year prior	42,199	32.0%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	5,934	4.5%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	573	0.4%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	435	0.3%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	38	0.0%
Intentional Poisoning by Broad Category on index date or year prior	1,758	1.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	124,131	94.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	126,120	95.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	2,497	1.9%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	849	0.6%
At least One Encounter in the Emergency Department in Year Prior	65,652	49.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	60,266	45.7%
At least One Encounter in the Outpatient Care Setting in Year Prior	131,577	99.8%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	61,398	46.6%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	27,958	21.2%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	13,679	10.4%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	16,465	12.5%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	3,345	2.5%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	33,840	25.7%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	23,272	17.7%

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 January 1, 2017 to March 31, 2023

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	12	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	170	0.1%
Dextroamphetamine Single-entity Products Extended Release	116	0.1%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	2,273	1.7%
Amphetamine/Dextroamphetamine Combination Products Extended Release	1,207	0.9%
Lisdexamfetamine Extended Release	631	0.5%
Methamphetamine Single-entity Products Immediate Release	*****	*****
Methylphenidate Single-entity Products Immediate Release	1,554	1.2%
Methylphenidate Single-entity Products Extended Release Oral Solid	622	0.5%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	*****	*****
Dexmethylphenidate Single-entity Products Immediate Release	153	0.1%
Dexmethylphenidate Single-entity Products Extended Release	118	0.1%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	*****	*****
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	3,754	2.8%
Any ADHD Stimulant API Extended Release	2,332	1.8%
Atomoxetine Immediate Release	13,256	10.1%
Guanfacine Extended Release	3,043	2.3%
Viloxazine Extended Release	142	0.1%
Clonidine Extended Release	115,923	87.9%
Any ADHD Non-Stimulant API Extended Release	118,912	90.2%
Codeine	42	0.0%
Fentanyl	2,598	2.0%
Hydrocodone	32,580	24.7%
Hydromorphone	2,289	1.7%
Morphine	5,763	4.4%
Oxycodone	22,579	17.1%
Oxymorphone	104	0.1%
Other C-II Opioid Analgesics	1,008	0.8%

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 January 1, 2017 to March 31, 2023

ADHD Non-Stimulant Medication Patients of Age 65+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	34.1	37.3
Mean number of emergency room encounters	1.3	2.4
Mean number of inpatient hospital encounters	0.9	1.4
Mean number of non-acute institutional encounters	0.4	1.0
Mean number of other ambulatory encounters	20.4	31.1
Mean number of filled prescriptions	60.6	48.1
Mean number of generics dispensed	16.2	7.4
Mean number of unique drug classes dispensed	14.4	6.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	99,020	75.1%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	39,894	30.3%
Diagnosis 3: E119 — Type 2 Diabetes Mellitus Without Complications	31,046	23.6%
Diagnosis 4: I2510 — Atherosclerotic Heart Disease Native Coronary Artery Without Angina Pectoris	26,326	20.0%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	23,462	17.8%

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 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Patient Characteristics	Number	
Unique patients	5,199,182	
Healthcare Payor Status	Number	Percent
Commercial payor patients	1,130,510	21.7%
Medicare Members	4,068,672	78.3%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	75.4	7.3
	Number	Percent
Age		
≥ 65 years	5,199,182	100.0%
Sex		
Female	3,032,298	58.3%
Male	2,166,884	41.7%
Race ¹		
American Indian or Alaska Native	18,236	0.4%
Asian	61,894	1.2%
Black or African American	322,180	6.2%
Multi-racial	4,855	0.1%
Native Hawaiian or Other Pacific Islander	6,068	0.1%
Unknown	520,532	10.0%
White	4,265,417	82.0%
Hispanic origin		
Yes	60,709	1.2%
No	4,484,399	86.3%
Unknown	654,074	12.6%
Year		
2017	1,162,213	22.4%
2018	946,201	18.2%
2019	775,720	14.9%
2020	708,924	13.6%
2021	724,107	13.9%
2022	702,713	13.5%
2023	179,304	3.4%
Census Bureau Region ²		
Invalid	13,446	0.3%
Midwest	1,302,039	25.0%
Northeast	673,967	13.0%
South	2,166,099	41.7%
West	1,040,601	20.0%
Missing	329	0.0%
Other	2,701	0.1%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.5	3.8
Combined comorbidity score categories		
<=0	1,267,562	24.4%
1-2	1,396,542	26.9%
3-4	884,670	17.0%
5+	1,650,408	31.7%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	40,142	0.8%
ADHD Non-Stimulant Medication on index date or year prior	17,414	0.3%
Schedule II (C-II) Analgesic on index date or year prior	5,199,182	100.0%
Medication for Opioid-Related Disorders on index date or year prior	7,152	0.1%
Antidepressant Medication on index date or year prior	1,940,080	37.3%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	1,473,797	28.3%
Antipsychotic Medication on index date or year prior	374,794	7.2%
Mood Stabilizers on index date or year prior	146,237	2.8%
Cancer on index date or year prior	1,046,854	20.1%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	4,711,114	90.6%
ADHD on index date or year prior	27,252	0.5%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	28,224	0.5%
Narcolepsy on index date or year prior	6,601	0.1%
Binge-Eating Disorder on index date or year prior	1,336	0.0%
ADHD on index date or 30 days Prior	10,716	0.2%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	7,815	0.2%
Narcolepsy on index date or 30 days Prior	2,262	0.0%
Binge-Eating Disorder on index date or 30 days Prior	344	0.0%
Hypertension on index date or year prior	4,276,845	82.3%
Coronary artery disease on index date or year prior	1,950,888	37.5%
Cardiac arrhythmia on index date or year prior	1,669,431	32.1%
Cardiomyopathy on index date or year prior	336,616	6.5%
Cardiac structural abnormality on index date or year prior	67,769	1.3%
All other diseases of the circulatory system on index date or year prior	1,159,791	22.3%
Epilepsy or recurrent seizures on index date or year prior	118,693	2.3%
Other seizure or convulsions on index date or year prior	120,221	2.3%
Depression on index date or year prior	1,271,819	24.5%
Anxiety on index date or year prior	1,319,316	25.4%
Bipolar Disorder on index date or year prior	86,308	1.7%
Sleep Disorder on index date or year prior	2,037,699	39.2%
Psychotic Disorder on index date or year prior	121,260	2.3%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	42,522	0.8%
Manic Episode on index date or year prior	4,014	0.1%
Autistic Disorder on index date or year prior	1,463	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 January 1, 2017 to March 31, 2023

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	1,988,035	38.2%
Opioid-Related Disorders on index date or year prior	126,117	2.4%
Stimulant-Related Disorders on index date or year prior	11,936	0.2%
Cocaine-Related Disorders on index date or year prior	5,748	0.1%
Other Stimulant-Related Disorders on index date or year prior	6,695	0.1%
Alcohol-Related Disorders on index date or year prior	146,723	2.8%
Cannabis-Related Disorders on index date or year prior	27,124	0.5%
Tobacco-Related Disorders on index date or year prior	1,851,282	35.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	239,979	4.6%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	5,559	0.1%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	3,737	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	412	0.0%
Intentional Poisoning by Broad Category on index date or year prior	45,730	0.9%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	5,164,559	99.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	5,185,974	99.7%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	27,860	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	7,776	0.1%
At least One Encounter in the Emergency Department in Year Prior	2,119,780	40.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	2,042,590	39.3%
At least One Encounter in the Outpatient Care Setting in Year Prior	5,190,526	99.8%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	1,792,951	34.5%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	700,561	13.5%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	338,398	6.5%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	314,678	6.1%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	33,782	0.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	16,771	0.3%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	31,434	0.6%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	14,908	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 January 1, 2017 to March 31, 2023

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	30	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	24	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	*****	*****
Dextroamphetamine Single-entity Products Immediate Release	1,451	0.0%
Dextroamphetamine Single-entity Products Extended Release	916	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate	20,038	0.4%
Amphetamine/Dextroamphetamine Combination Products Extended Release	8,081	0.2%
Lisdexamfetamine Extended Release	3,423	0.1%
Methamphetamine Single-entity Products Immediate Release	19	0.0%
Methylphenidate Single-entity Products Immediate Release	23,176	0.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	3,596	0.1%
Methylphenidate Single-entity Products Extended Release Oral Liquid	*****	*****
Methylphenidate Single-entity Products Extended Release Transdermal Patch	25	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	641	0.0%
Dexmethylphenidate Single-entity Products Extended Release	519	0.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	15	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	42,832	0.8%
Any ADHD Stimulant API Extended Release	15,139	0.3%
Atomoxetine Immediate Release	2,957	0.1%
Guanfacine Extended Release	658	0.0%
Viloxazine Extended Release	37	0.0%
Clonidine Extended Release	25,076	0.5%
Any ADHD Non-Stimulant API Extended Release	25,740	0.5%
Codeine	4,642	0.1%
Fentanyl	146,333	2.8%
Hydrocodone	3,438,777	66.1%
Hydromorphone	203,711	3.9%
Morphine	383,734	7.4%
Oxycodone	2,615,484	50.3%
Oxymorphone	939	0.0%
Other C-II Opioid Analgesics	36,103	0.7%

Table 1r. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 65+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	28.2	25.1
Mean number of emergency room encounters	0.8	1.7
Mean number of inpatient hospital encounters	0.6	1.0
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	11.2	20.8
Mean number of filled prescriptions	40.8	34.7
Mean number of generics dispensed	12.5	6.1
Mean number of unique drug classes dispensed	11.2	5.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	2,862,354	55.1%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	1,546,932	29.8%
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	1,240,265	23.9%
Diagnosis 4: Z79899 — Other Long Term Current Drug Therapy	1,188,239	22.9%

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 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18+ Years		
Patient Characteristics	Number	
Unique patients	1,043,875	
Healthcare Payor Status	Number	Percent
Commercial payor patients	844,696	80.9%
Medicare Members	199,179	19.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	40.7	13.9
Age	Number	Percent
18-25 years	256,932	24.6%
26-29 years	94,562	9.1%
30-39 years	241,292	23.1%
40-49 years	169,698	16.3%
50-64 years	148,379	14.2%
≥ 65 years	133,012	12.7%
Sex		
Female	597,488	57.2%
Male	446,387	42.8%
Race ¹		
American Indian or Alaska Native	1,610	0.2%
Asian	6,398	0.6%
Black or African American	16,402	1.6%
Multi-racial	15,586	1.5%
Native Hawaiian or Other Pacific Islander	361	0.0%
Unknown	703,999	67.4%
White	299,519	28.7%
Hispanic origin		
Yes	13,318	1.3%
No	240,708	23.1%
Unknown	789,849	75.7%
Year		
2017	160,714	15.4%
2018	155,964	14.9%
2019	150,807	14.4%
2020	147,392	14.1%
2021	185,717	17.8%
2022	195,939	18.8%
2023	47,342	4.5%
Census Bureau Region ²		
Invalid	10,592	1.0%
Midwest	234,922	22.5%
Northeast	155,549	14.9%
South	434,610	41.6%
West	207,173	19.9%
Missing	825	0.1%
Other	204	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 January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	1.2	2.0
Combined comorbidity score categories		
<=0	482,982	46.3%
1-2	418,341	40.1%
3-4	73,617	7.1%
5+	68,935	6.6%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	1,043,875	100.0%
ADHD Non-Stimulant Medication on index date or year prior	49,727	4.8%
Schedule II (C-II) Analgesic on index date or year prior	222,619	21.3%
Medication for Opioid-Related Disorders on index date or year prior	13,566	1.3%
Antidepressant Medication on index date or year prior	556,744	53.3%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	351,634	33.7%
Antipsychotic Medication on index date or year prior	136,569	13.1%
Mood Stabilizers on index date or year prior	93,568	9.0%
Cancer on index date or year prior	47,033	4.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	495,763	47.5%
ADHD on index date or year prior	530,389	50.8%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	11,612	1.1%
Narcolepsy on index date or year prior	12,124	1.2%
Binge-Eating Disorder on index date or year prior	20,114	1.9%
ADHD on index date or 30 days Prior	459,716	44.0%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	4,559	0.4%
Narcolepsy on index date or 30 days Prior	7,534	0.7%
Binge-Eating Disorder on index date or 30 days Prior	17,220	1.6%
Hypertension on index date or year prior	238,662	22.9%
Coronary artery disease on index date or year prior	58,994	5.7%
Cardiac arrhythmia on index date or year prior	85,984	8.2%
Cardiomyopathy on index date or year prior	9,802	0.9%
Cardiac structural abnormality on index date or year prior	5,583	0.5%
All other diseases of the circulatory system on index date or year prior	63,588	6.1%
Epilepsy or recurrent seizures on index date or year prior	18,610	1.8%
Other seizure or convulsions on index date or year prior	19,219	1.8%
Depression on index date or year prior	398,641	38.2%
Anxiety on index date or year prior	481,887	46.2%
Bipolar Disorder on index date or year prior	85,655	8.2%
Sleep Disorder on index date or year prior	259,707	24.9%
Psychotic Disorder on index date or year prior	25,262	2.4%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	65,325	6.3%
Manic Episode on index date or year prior	2,190	0.2%
Autistic Disorder on index date or year prior	10,304	1.0%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Characteristics	Number	Percent
Any Substance-Related Disorders on index date or year prior	207,341	19.9%
Opioid-Related Disorders on index date or year prior	39,933	3.8%
Stimulant-Related Disorders on index date or year prior	13,889	1.3%
Cocaine-Related Disorders on index date or year prior	6,441	0.6%
Other Stimulant-Related Disorders on index date or year prior	9,164	0.9%
Alcohol-Related Disorders on index date or year prior	39,172	3.8%
Cannabis-Related Disorders on index date or year prior	25,715	2.5%
Tobacco-Related Disorders on index date or year prior	152,663	14.6%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	34,109	3.3%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	2,916	0.3%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,794	0.2%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	417	0.0%
Intentional Poisoning by Broad Category on index date or year prior	6,354	0.6%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	488,198	46.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	563,578	54.0%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	4,611	0.4%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	1,913	0.2%
At least One Encounter in the Emergency Department in Year Prior	242,769	23.3%
At least One Encounter in the Inpatient Care Setting in Year Prior	102,308	9.8%
At least One Encounter in the Outpatient Care Setting in Year Prior	1,006,433	96.4%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Stimulant medication for at least 7 consecutive days	569,218	54.5%
Concurrent benzodiazepines with ADHD Stimulant medication for at least 7 consecutive days	217,105	20.8%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Stimulant medication for at least 7 consecutive days	127,120	12.2%
Concurrent antipsychotics with ADHD Stimulant medication for at least 7 consecutive days	138,380	13.3%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	38,746	3.7%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	122,145	11.7%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	92,565	8.9%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

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	2,384	0.2%
Amphetamine Single-entity Products Extended Release Oral Solid	3,126	0.3%
Amphetamine Single-entity Products Extended Release Oral Liquid	214	0.0%
Dextroamphetamine Single-entity Products Immediate Release	15,642	1.5%
Dextroamphetamine Single-entity Products Extended Release	9,693	0.9%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	481,331	46.1%
Amphetamine/Dextroamphetamine Combination Products Extended Release	345,712	33.1%
Lisdexamfetamine Extended Release	242,034	23.2%
Methamphetamine Single-entity Products Immediate Release	217	0.0%
Methylphenidate Single-entity Products Immediate Release	192,501	18.4%
Methylphenidate Single-entity Products Extended Release Oral Solid	134,842	12.9%
Methylphenidate Single-entity Products Extended Release Oral Liquid	191	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	784	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	16,287	1.6%
Dexmethylphenidate Single-entity Products Extended Release	22,928	2.2%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	1,742	0.2%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	660,172	63.2%
Any ADHD Stimulant API Extended Release	636,780	61.0%
Atomoxetine Immediate Release	36,784	3.5%
Guanfacine Extended Release	10,873	1.0%
Viloxazine Extended Release	1,089	0.1%
Clonidine Extended Release	2,877	0.3%
Any ADHD Non-Stimulant API Extended Release	14,540	1.4%
Codeine	200	0.0%
Fentanyl	7,356	0.7%
Hydrocodone	178,836	17.1%
Hydromorphone	13,585	1.3%
Morphine	15,771	1.5%
Oxycodone	144,901	13.9%
Oxymorphone	675	0.1%
Other C-II Opioid Analgesics	5,939	0.6%

Table 1s. Aggregated Characteristics of Initiators of Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

ADHD Stimulant Medication Patients of Age 18+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	17.5	19.2
Mean number of emergency room encounters	0.5	1.5
Mean number of inpatient hospital encounters	0.2	0.6
Mean number of non-acute institutional encounters	0.0	0.4
Mean number of other ambulatory encounters	4.7	11.0
Mean number of filled prescriptions	25.1	27.3
Mean number of generics dispensed	8.4	6.1
Mean number of unique drug classes dispensed	7.8	5.3
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: F900 — Attention-Deficit Hyperactivity Disorder Inattentive Type	213,271	20.4%
Diagnosis 2: F411 — Generalized Anxiety Disorder	163,167	15.6%
Diagnosis 3: F909 — Attention-Deficit Hyperactivity Disorder Unspecified Type	135,891	13.0%
Diagnosis 4: F902 — Attention-Deficit Hyperactivity Disorder Combined Type	114,228	10.9%
Diagnosis 5: F419 — Anxiety Disorder Unspecified	112,714	10.8%

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.

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 January 1, 2017 to March 31, 2023

	ADHD Non-Stimulant Medication Patients of Age 18+ Years	
Patient Characteristics	Number	
Unique patients	381,159	
Healthcare Payor Status	Number	Percent
Commercial payor patients	205,344	53.9%
Medicare Members	175,815	46.1%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	52.3	17.0
Age	Number	Percent
18-25 years	57,356	15.0%
26-29 years	20,314	5.3%
30-39 years	58,643	15.4%
40-49 years	49,398	13.0%
50-64 years	63,814	16.7%
≥ 65 years	131,634	34.5%
Sex		
Female	227,004	59.6%
Male	154,155	40.4%
Race ¹		
American Indian or Alaska Native	1,540	0.4%
Asian	5,285	1.4%
Black or African American	38,215	10.0%
Multi-racial	3,563	0.9%
Native Hawaiian or Other Pacific Islander	216	0.1%
Unknown	165,857	43.5%
White	166,483	43.7%
Hispanic origin		
Yes	8,483	2.2%
No	189,995	49.8%
Unknown	182,681	47.9%
Year		
2017	53,105	13.9%
2018	55,565	14.6%
2019	56,684	14.9%
2020	53,718	14.1%
2021	65,787	17.3%
2022	73,938	19.4%
2023	22,362	5.9%
Census Bureau Region ²		
Invalid	2,405	0.6%
Midwest	83,860	22.0%
Northeast	54,398	14.3%
South	167,169	43.9%
West	73,033	19.2%
Missing	141	0.0%
Other	153	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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Non-Stimulant Medication Patients of Age 18+ Years	
	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	3.0	3.2
Combined comorbidity score categories		
<=0	96,334	25.3%
1-2	136,441	35.8%
3-4	51,247	13.4%
5+	97,137	25.5%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	69,259	18.2%
ADHD Non-Stimulant Medication on index date or year prior	381,159	100.0%
Schedule II (C-II) Analgesic on index date or year prior	104,363	27.4%
Medication for Opioid-Related Disorders on index date or year prior	8,420	2.2%
Antidepressant Medication on index date or year prior	219,169	57.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	151,493	39.7%
Antipsychotic Medication on index date or year prior	77,262	20.3%
Mood Stabilizers on index date or year prior	49,844	13.1%
Cancer on index date or year prior	24,965	6.5%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	242,371	63.6%
ADHD on index date or year prior	123,514	32.4%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	9,916	2.6%
Narcolepsy on index date or year prior	1,361	0.4%
Binge-Eating Disorder on index date or year prior	1,756	0.5%
ADHD on index date or 30 days Prior	100,216	26.3%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	3,782	1.0%
Narcolepsy on index date or 30 days Prior	519	0.1%
Binge-Eating Disorder on index date or 30 days Prior	923	0.2%
Hypertension on index date or year prior	208,163	54.6%
Coronary artery disease on index date or year prior	87,447	22.9%
Cardiac arrhythmia on index date or year prior	90,139	23.6%
Cardiomyopathy on index date or year prior	15,417	4.0%
Cardiac structural abnormality on index date or year prior	4,191	1.1%
All other diseases of the circulatory system on index date or year prior	61,299	16.1%
Epilepsy or recurrent seizures on index date or year prior	18,290	4.8%
Other seizure or convulsions on index date or year prior	19,475	5.1%
Depression on index date or year prior	160,644	42.1%
Anxiety on index date or year prior	192,580	50.5%
Bipolar Disorder on index date or year prior	46,932	12.3%
Sleep Disorder on index date or year prior	139,270	36.5%
Psychotic Disorder on index date or year prior	29,059	7.6%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	31,675	8.3%
Manic Episode on index date or year prior	1,773	0.5%
Autistic Disorder on index date or year prior	7,428	1.9%
Any Substance-Related Disorders on index date or year prior	135,575	35.6%

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 January 1, 2017 to March 31, 2023

Health Characteristics	ADHD Non-Stimulant Medication Patients of Age 18+ Years	
	Number	Percent
Opioid-Related Disorders on index date or year prior	31,890	8.4%
Stimulant-Related Disorders on index date or year prior	16,677	4.4%
Cocaine-Related Disorders on index date or year prior	7,906	2.1%
Other Stimulant-Related Disorders on index date or year prior	11,651	3.1%
Alcohol-Related Disorders on index date or year prior	28,670	7.5%
Cannabis-Related Disorders on index date or year prior	20,623	5.4%
Tobacco-Related Disorders on index date or year prior	104,959	27.5%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	23,747	6.2%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	3,295	0.9%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	2,196	0.6%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	626	0.2%
Intentional Poisoning by Broad Category on index date or year prior	5,099	1.3%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	256,237	67.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	280,212	73.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	5,880	1.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	2,419	0.6%
At least One Encounter in the Emergency Department in Year Prior	155,473	40.8%
At least One Encounter in the Inpatient Care Setting in Year Prior	106,991	28.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	375,725	98.6%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with ADHD Non-Stimulant medication for at least 7 consecutive days	207,515	54.4%
Concurrent benzodiazepines with ADHD Non-Stimulant medication for at least 7 consecutive days	73,890	19.4%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with ADHD Non-Stimulant medication for at least 7 consecutive days	48,938	12.8%
Concurrent antipsychotics with ADHD Non-Stimulant medication for at least 7 consecutive days	72,262	19.0%
Concurrent ADHD Stimulant medication with ADHD Non-Stimulant medication for at least 7 consecutive days	58,370	15.3%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	68,883	18.1%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	51,506	13.5%

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 January 1, 2017 to March 31, 2023

	ADHD Non-Stimulant Medication Patients of Age 18+ Years	
Active Pharmaceutical Ingredients from Index until End of Patient's History		
Amphetamine Single-entity Products Immediate Release	293	0.1%
Amphetamine Single-entity Products Extended Release Oral Solid	360	0.1%
Amphetamine Single-entity Products Extended Release Oral Liquid	29	0.0%
Dextroamphetamine Single-entity Products Immediate Release	2,010	0.5%
Dextroamphetamine Single-entity Products Extended Release	1,424	0.4%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	39,093	10.3%
Amphetamine/Dextroamphetamine Combination Products Extended Release	32,845	8.6%
Lisdexamfetamine Extended Release	26,709	7.0%
Methamphetamine Single-entity Products Immediate Release	60	0.0%
Methylphenidate Single-entity Products Immediate Release	13,272	3.5%
Methylphenidate Single-entity Products Extended Release Oral Solid	16,452	4.3%
Methylphenidate Single-entity Products Extended Release Oral Liquid	29	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	212	0.1%
Dexmethylphenidate Single-entity Products Immediate Release	2,328	0.6%
Dexmethylphenidate Single-entity Products Extended Release	3,506	0.9%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	353	0.1%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	51,586	13.5%
Any ADHD Stimulant API Extended Release	65,245	17.1%
Atomoxetine Immediate Release	178,208	46.8%
Guanfacine Extended Release	40,500	10.6%
Viloxazine Extended Release	3,011	0.8%
Clonidine Extended Release	170,041	44.6%
Any ADHD Non-Stimulant API Extended Release	212,290	55.7%
Codeine	90	0.0%
Fentanyl	5,126	1.3%
Hydrocodone	79,258	20.8%
Hydromorphone	6,984	1.8%
Morphine	10,671	2.8%
Oxycodone	63,282	16.6%
Oxymorphone	479	0.1%
Other C-II Opioid Analgesics	3,142	0.8%

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 January 1, 2017 to March 31, 2023

Health Service Utilization Intensity Metrics	ADHD Non-Stimulant Medication Patients of Age 18+ Years	
	Mean	Standard Deviation
Mean number of ambulatory encounters	29.5	37.4
Mean number of emergency room encounters	1.1	2.9
Mean number of inpatient hospital encounters	0.6	1.4
Mean number of non-acute institutional encounters	0.2	0.8
Mean number of other ambulatory encounters	12.6	23.8
Mean number of filled prescriptions	46.4	40.9
Mean number of generics dispensed	12.9	7.4
Mean number of unique drug classes dispensed	11.6	6.2
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	146,435	38.4%
Diagnosis 2: F411 — Generalized Anxiety Disorder	59,658	15.7%
Diagnosis 3: E785 — Hyperlipidemia Unspecified	56,605	14.9%
Diagnosis 4: F419 — Anxiety Disorder Unspecified	51,483	13.5%
Diagnosis 5: Z79899 — Other Long Term Current Drug Therapy	49,960	13.1%

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.

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Patient Characteristics	Number	
Unique patients	8,023,085	
Healthcare Payor Status	Number	Percent
Commercial payor patients	3,261,549	40.7%
Medicare Members	4,761,536	59.4%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	66.2	12.7
Age	Number	Percent
18-25 years	149,134	1.9%
26-29 years	89,733	1.1%
30-39 years	399,175	5.0%
40-49 years	598,695	7.5%
50-64 years	1,615,205	20.1%
≥ 65 years	5,171,143	64.5%
Sex		
Female	4,585,341	57.2%
Male	3,437,744	42.8%
Race ¹		
American Indian or Alaska Native	29,550	0.4%
Asian	78,752	1.0%
Black or African American	513,237	6.4%
Multi-racial	29,976	0.4%
Native Hawaiian or Other Pacific Islander	7,522	0.1%
Unknown	2,302,379	28.7%
White	5,061,669	63.1%
Hispanic origin		
Yes	114,345	1.4%
No	5,323,623	66.4%
Unknown	2,585,117	32.2%
Year		
2017	1,869,054	23.3%
2018	1,499,810	18.7%
2019	1,217,316	15.2%
2020	1,086,287	13.5%
2021	1,081,803	13.5%
2022	1,014,525	12.6%
2023	254,290	3.2%
Census Bureau Region ²		
Invalid	30,628	0.4%
Midwest	2,032,315	25.3%
Northeast	955,494	11.9%
South	3,388,731	42.2%
West	1,610,045	20.1%
Missing	2,535	0.0%
Other	3,337	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 January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Characteristics	Number/Mean	Percent/Standard Deviation ³
Combined comorbidity score ⁴	2.9	3.4
Combined comorbidity score categories		
<=0	2,526,472	31.5%
1-2	2,281,839	28.4%
3-4	1,178,869	14.7%
5+	2,035,905	25.4%
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication on index date or year prior	161,261	2.0%
ADHD Non-Stimulant Medication on index date or year prior	33,552	0.4%
Schedule II (C-II) Analgesic on index date or year prior	8,023,085	100.0%
Medication for Opioid-Related Disorders on index date or year prior	26,486	0.3%
Antidepressant Medication on index date or year prior	3,007,855	37.5%
Anxiolytic or Sedative/Hypnotic Medications on index date or year prior	2,378,868	29.7%
Antipsychotic Medication on index date or year prior	650,340	8.1%
Mood Stabilizers on index date or year prior	307,577	3.8%
Cancer on index date or year prior	1,269,396	15.8%
Non-Cancer or Chronic Pain-Related Conditions on index date or year prior	6,928,627	86.4%
ADHD on index date or year prior	131,183	1.6%
Conduct or Adjustment Disorders or other related disorders on index date or year prior	46,576	0.6%
Narcolepsy on index date or year prior	13,023	0.2%
Binge-Eating Disorder on index date or year prior	5,737	0.1%
ADHD on index date or 30 days Prior	52,595	0.7%
Conduct or Adjustment Disorders or other related disorders on index date or 30 days Prior	12,406	0.2%
Narcolepsy on index date or 30 days Prior	4,425	0.1%
Binge-Eating Disorder on index date or 30 days Prior	1,770	0.0%
Hypertension on index date or year prior	5,610,036	69.9%
Coronary artery disease on index date or year prior	2,310,227	28.8%
Cardiac arrhythmia on index date or year prior	2,080,226	25.9%
Cardiomyopathy on index date or year prior	420,924	5.2%
Cardiac structural abnormality on index date or year prior	96,617	1.2%
All other diseases of the circulatory system on index date or year prior	1,510,532	18.8%
Epilepsy or recurrent seizures on index date or year prior	216,275	2.7%
Other seizure or convulsions on index date or year prior	210,265	2.6%
Depression on index date or year prior	1,964,928	24.5%
Anxiety on index date or year prior	2,157,832	26.9%
Bipolar Disorder on index date or year prior	249,809	3.1%
Sleep Disorder on index date or year prior	2,879,523	35.9%
Psychotic Disorder on index date or year prior	202,388	2.5%
Post-Traumatic Stress Disorder (PTSD) on index date or year prior	146,506	1.8%
Manic Episode on index date or year prior	7,966	0.1%
Autistic Disorder on index date or year prior	8,738	0.1%
Any Substance-Related Disorders on index date or year prior	2,959,629	36.9%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Characteristics	Number	Percent
Opioid-Related Disorders on index date or year prior	228,304	2.8%
Stimulant-Related Disorders on index date or year prior	50,876	0.6%
Cocaine-Related Disorders on index date or year prior	26,928	0.3%
Other Stimulant-Related Disorders on index date or year prior	27,941	0.3%
Alcohol-Related Disorders on index date or year prior	275,029	3.4%
Cannabis-Related Disorders on index date or year prior	94,657	1.2%
Tobacco-Related Disorders on index date or year prior	2,722,022	33.9%
Nicotine Use Excluding Tobacco-Related Disorder on index date or year prior	464,434	5.8%
Unintentional or Undetermined Poisoning by Broad Category on index date or year prior	13,289	0.2%
Opioid Poisoning or Unintentional or Undetermined Intent on index date or year prior	8,236	0.1%
Stimulant Poisoning or Unintentional or Undetermined Intent on index date or year prior	1,922	0.0%
Intentional Poisoning by Broad Category on index date or year prior	63,759	0.8%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or year prior	7,875,597	98.2%
No diagnosis of ADHD and no Narcolepsy and no Binge-Eating Disorder on index date or 30 days Prior	7,964,820	99.3%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or year prior	43,939	0.5%
No diagnosis of ADHD/Narcolepsy/Binge-Eating AND a diagnosis of a conduct disorder on index date or 30 days Prior	12,012	0.1%
At least One Encounter in the Emergency Department in Year Prior	3,278,056	40.9%
At least One Encounter in the Inpatient Care Setting in Year Prior	2,813,427	35.1%
At least One Encounter in the Outpatient Care Setting in Year Prior	7,973,400	99.4%
Medical Product Use - Concurrent Use		
Concurrent antidepressants with C-II Opioid Analgesic for at least 7 consecutive days	2,710,855	33.8%
Concurrent benzodiazepines with C-II Opioid Analgesic for at least 7 consecutive days	1,089,073	13.6%
Concurrent nonbenzodiazepine anxiolytics or sedative or hypnotics with C-II Opioid Analgesic for at least 7 consecutive days	557,529	6.9%
Concurrent antipsychotics with C-II Opioid Analgesic for at least 7 consecutive days	546,840	6.8%
Concurrent All Opioid Analgesic with ADHD stimulant medication for at least 7 consecutive days	128,038	1.6%
Concurrent All Opioid Analgesic with ADHD Non-stimulant medication for at least 7 consecutive days	30,880	0.4%
Concurrent ADHD Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	121,087	1.5%
Concurrent ADHD Non-Stimulant medication with C-II Opioid Analgesic for at least 7 consecutive days	27,577	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 January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Active Pharmaceutical Ingredients from Index until End of Patient's History	Number	Percent
Amphetamine Single-entity Products Immediate Release	334	0.0%
Amphetamine Single-entity Products Extended Release Oral Solid	474	0.0%
Amphetamine Single-entity Products Extended Release Oral Liquid	29	0.0%
Dextroamphetamine Single-entity Products Immediate Release	3,967	0.0%
Dextroamphetamine Single-entity Products Extended Release	2,576	0.0%
Amphetamine/Dextroamphetamine Combination Products Immediate Release	101,022	1.3%
Amphetamine/Dextroamphetamine Combination Products Extended Release	56,094	0.7%
Lisdexamfetamine Extended Release	39,786	0.5%
Methamphetamine Single-entity Products Immediate Release	87	0.0%
Methylphenidate Single-entity Products Immediate Release	44,666	0.6%
Methylphenidate Single-entity Products Extended Release Oral Solid	18,723	0.2%
Methylphenidate Single-entity Products Extended Release Oral Liquid	23	0.0%
Methylphenidate Single-entity Products Extended Release Transdermal Patch	157	0.0%
Dexmethylphenidate Single-entity Products Immediate Release	2,473	0.0%
Dexmethylphenidate Single-entity Products Extended Release	3,056	0.0%
Dexmethylphenidate/Serdexmethylphenidate Immediate Release	265	0.0%
Any ADHD Stimulant Active Pharmaceutical Ingredients (API) Immediate Release	143,500	1.8%
Any ADHD Stimulant API Extended Release	104,094	1.3%
Atomoxetine Immediate Release	18,917	0.2%
Guanfacine Extended Release	4,052	0.1%
Viloxazine Extended Release	367	0.0%
Clonidine Extended Release	36,642	0.5%
Any ADHD Non-Stimulant API Extended Release	40,914	0.5%
Codeine	6,743	0.1%
Fentanyl	183,470	2.3%
Hydrocodone	5,277,953	65.8%
Hydromorphone	322,775	4.0%
Morphine	480,118	6.0%
Oxycodone	4,165,596	51.9%
Oxymorphone	2,273	0.0%
Other C-II Opioid Analgesics	66,656	0.8%

Table 1u. Aggregated Characteristics of Initiators of Schedule II (C-II) Opioid Analgesics, Age 18+ Years, in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years		
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	26.1	26.4
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	0.6
Mean number of other ambulatory encounters	9.6	19.0
Mean number of filled prescriptions	38.3	34.3
Mean number of generics dispensed	11.9	6.3
Mean number of unique drug classes dispensed	10.6	5.4
Most Frequent Utilization in Month Prior (-30, 0)	Number	Percent
Diagnosis 1: I10 — Essential Primary Hypertension	3,687,796	46.0%
Diagnosis 2: E785 — Hyperlipidemia Unspecified	1,922,039	24.0%
Diagnosis 3: Z01818 — Encounter For Other Preprocedural Examination	1,790,555	22.3%
Diagnosis 4: Z79899 — Other Long Term Current Drug Therapy	1,649,908	20.6%
Diagnosis 5: K219 — Gastroesophageal Reflux Disease Without Esophagitis	1,329,579	16.6%

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 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>	1,415,727	374,590	26.5%	200,530	14.2%	143,821	10.2%	109,220	7.7%	87,295	6.2%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	210,075	41.3%	85,262	16.7%	47,229	9.3%	31,045	6.1%	23,554	4.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	6,507,407	80.4%	597,227	7.4%	242,644	3.0%	141,879	1.8%	97,925	1.2%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	89,153	23.6%	54,237	14.4%	40,448	10.7%	30,396	8.0%	24,326	6.4%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	42,121	32.8%	20,287	15.8%	13,022	10.1%	9,143	7.1%	6,992	5.4%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	67,849	99.3%	256	0.4%	70	0.1%	42	0.1%	26	0.0%
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	74,552	29.0%	42,902	16.7%	29,694	11.6%	21,580	8.4%	16,394	6.4%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	29,744	51.9%	10,361	18.1%	5,429	9.5%	3,149	5.5%	2,009	3.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	144,254	96.7%	2,043	1.4%	762	0.5%	447	0.3%	329	0.2%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	101,997	23.7%	59,825	13.9%	44,774	10.4%	34,885	8.1%	28,321	6.6%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	50,932	48.5%	18,615	17.7%	9,843	9.4%	5,940	5.7%	4,102	3.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	660,548	87.7%	30,282	4.0%	12,799	1.7%	8,322	1.1%	5,984	0.8%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	228,595	63,421	27.7%	30,262	13.2%	21,150	9.3%	16,446	7.2%	13,304	5.8%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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 45-64 Years</i>	87,845	37,863	43.1%	15,137	17.2%	7,917	9.0%	5,280	6.0%	3,989	4.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	1,962,540	1,549,861	79.0%	138,040	7.0%	59,504	3.0%	37,229	1.9%	26,646	1.4%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	57,733	43.2%	18,738	14.0%	10,820	8.1%	7,391	5.5%	5,796	4.3%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	50,938	38.6%	21,415	16.2%	11,286	8.6%	7,634	5.8%	6,444	4.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	4,135,310	79.5%	426,872	8.2%	169,057	3.3%	95,519	1.8%	64,608	1.2%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	291,564	27.9%	149,156	14.3%	104,929	10.1%	79,460	7.6%	63,442	6.1%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	168,657	44.2%	65,198	17.1%	34,319	9.0%	21,943	5.8%	16,530	4.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	6,440,428	80.3%	596,962	7.4%	242,575	3.0%	141,831	1.8%	97,895	1.2%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Patients	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>	1,415,727	72,544	5.1%	59,490	4.2%	50,183	3.5%	318,054	22.5%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	17,788	3.5%	14,143	2.8%	11,418	2.2%	68,571	13.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	73,370	0.9%	57,295	0.7%	47,525	0.6%	325,309	4.0%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	20,392	5.4%	16,939	4.5%	14,313	3.8%	87,659	23.2%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	5,627	4.4%	4,509	3.5%	3,627	2.8%	23,230	18.1%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	22	0.0%	*****	*****	*****	*****	47	0.1%
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	12,914	5.0%	10,289	4.0%	8,271	3.2%	40,336	15.7%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	1,444	2.5%	1,091	1.9%	804	1.4%	3,325	5.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	224	0.2%	161	0.1%	130	0.1%	784	0.5%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	23,855	5.6%	19,472	4.5%	16,382	3.8%	100,167	23.3%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	2,978	2.8%	2,247	2.1%	1,760	1.7%	8,510	8.1%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	4,666	0.6%	3,743	0.5%	3,218	0.4%	23,928	3.2%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	228,595	10,971	4.8%	8,830	3.9%	7,718	3.4%	56,493	24.7%

Table 2a. Categorical Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Patients	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 45-64 Years</i>	87,845	2,936	3.3%	2,285	2.6%	1,854	2.1%	10,584	12.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	1,962,540	20,564	1.0%	16,205	0.8%	13,957	0.7%	100,534	5.1%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	4,665	3.5%	3,806	2.8%	3,134	2.3%	21,666	16.2%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	4,855	3.7%	3,998	3.0%	3,342	2.5%	21,902	16.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	47,493	0.9%	36,864	0.7%	29,761	0.6%	193,698	3.7%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	52,192	5.0%	42,391	4.1%	35,623	3.4%	225,118	21.6%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	12,186	3.2%	9,608	2.5%	7,788	2.0%	44,930	11.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	73,345	0.9%	57,282	0.7%	47,518	0.6%	325,249	4.1%

****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 January 1, 2017 to March 31, 2023

	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>	1,415,727	1	60	178	436	2,281	324.8	383.3
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	1	30	90	260	2,280	224.0	325.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	1	7	14	43	2,281	76.9	207.5
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	1	67	190	450	2,279	333.6	379.5
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	1	47	128	353	2,279	276.7	358.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	1	7	7	10	2,265	10.8	30.2
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	1	60	143	334	2,281	254.3	300.7
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	1	30	60	150	2,279	140.1	216.9
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	1	7	7	10	2,268	19.0	78.0
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	1	66	194	451	2,280	336.3	384.0
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	1	30	65	180	2,278	166.0	259.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	1	7	7	21	2,281	58.1	191.8
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	228,595	1	60	180	475	2,279	349.0	418.7
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	87,845	1	30	86	239	2,278	208.0	308.5

Table 2b. Continuous Summary of Initiators' Cumulative Treatment Episode Durations for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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 45-64 Years</i>	1,962,540	1	7	14	45	2,280	89.6	236.2
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	1	30	90	300	2,280	247.9	360.3
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	1	30	97	314	2,280	256.0	360.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	1	7	15	46	2,281	75.4	196.6
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	1	60	167	420	2,281	315.4	380.3
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	1	30	84	227	2,280	204.8	309.9
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	1	7	14	43	2,281	77.5	208.2

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 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	Number of Episodes	Percent of Total Episodes
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years	3,023,716	1,453,329	48.1%	609,689	20.2%	284,448	9.4%	166,677	5.5%	111,449	3.7%
ADHD Non-Stimulant Medication Patients of Age 5+ Years	689,539	321,868	46.7%	135,863	19.7%	63,809	9.3%	38,546	5.6%	27,848	4.0%
Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	12,991,004	11,260,052	86.7%	787,106	6.1%	280,239	2.2%	152,908	1.2%	99,059	0.8%
ADHD Stimulant Medication Patients of Age 5-17 Years	869,217	395,825	45.5%	199,452	22.9%	94,641	10.9%	49,762	5.7%	31,420	3.6%
ADHD Non-Stimulant Medication Patients of Age 5-17 Years	186,271	77,724	41.7%	35,919	19.3%	18,722	10.1%	11,948	6.4%	8,394	4.5%
Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years	71,682	71,236	99.4%	252	0.4%	68	0.1%	36	0.1%	17	0.0%
ADHD Stimulant Medication Patients of Age 18-25 Years	517,808	268,070	51.8%	106,540	20.6%	47,005	9.1%	26,376	5.1%	17,266	3.3%
ADHD Non-Stimulant Medication Patients of Age 18-25 Years	71,540	40,513	56.6%	14,035	19.6%	6,064	8.5%	3,264	4.6%	2,034	2.8%
Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years	165,303	160,268	97.0%	2,340	1.4%	798	0.5%	470	0.3%	321	0.2%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 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	Number of Episodes	Percent of Total Episodes
ADHD Stimulant Medication Patients of Age 26-44 Years	815,084	362,965	44.5%	152,374	18.7%	76,608	9.4%	49,545	6.1%	34,940	4.3%
ADHD Non-Stimulant Medication Patients of Age 26-44 Years	133,146	71,056	53.4%	25,772	19.4%	11,834	8.9%	6,568	4.9%	4,393	3.3%
Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years	986,980	883,106	89.5%	39,609	4.0%	15,815	1.6%	9,600	1.0%	6,547	0.7%
ADHD Stimulant Medication Patients of Age 45-64 Years	459,592	219,544	47.8%	83,751	18.2%	39,406	8.6%	25,433	5.5%	17,813	3.9%
ADHD Non-Stimulant Medication Patients of Age 45-64 Years	117,196	55,918	47.7%	23,649	20.2%	10,572	9.0%	6,466	5.5%	4,588	3.9%
Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	3,018,786	2,558,323	84.7%	185,293	6.1%	72,007	2.4%	42,009	1.4%	28,134	0.9%
ADHD Stimulant Medication Patients of Age 65+ Years	258,394	148,800	57.6%	45,811	17.7%	18,462	7.1%	10,893	4.2%	7,200	2.8%
ADHD Non-Stimulant Medication Patients of Age 65+ Years	174,579	73,807	42.3%	34,797	19.9%	15,922	9.1%	9,873	5.7%	8,107	4.6%
Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years	8,664,966	7,525,955	86.9%	551,098	6.4%	187,757	2.2%	98,492	1.1%	62,505	0.7%
ADHD Stimulant Medication Patients of Age 18+ Years	2,103,669	1,027,130	48.8%	399,308	19.0%	185,968	8.8%	114,884	5.5%	78,899	3.8%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration									
		0-60 Days		61-120 Days		121-180 Days		181-240 Days		241-300 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	Number of Episodes	Percent of Total Episodes
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	500,334	242,835	48.5%	99,220	19.8%	44,809	9.0%	26,421	5.3%	19,317	3.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	12,918,859	11,188,412	86.6%	786,831	6.1%	280,160	2.2%	152,861	1.2%	99,039	0.8%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		301-360 Days		361-420 Days		421-480 Days		481+ Days	
		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
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years	3,023,716	80,221	2.7%	57,419	1.9%	46,511	1.5%	213,973	7.1%
ADHD Non-Stimulant Medication Patients of Age 5+ Years	689,539	19,468	2.8%	14,796	2.1%	11,556	1.7%	55,785	8.1%
Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	12,991,004	72,579	0.6%	54,316	0.4%	43,632	0.3%	241,113	1.9%
ADHD Stimulant Medication Patients of Age 5-17 Years	869,217	20,561	2.4%	13,486	1.6%	11,321	1.3%	52,749	6.1%
ADHD Non-Stimulant Medication Patients of Age 5-17 Years	186,271	6,153	3.3%	4,630	2.5%	3,804	2.0%	18,977	10.2%
Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years	71,682	16	0.0%	*****	*****	*****	*****	41	0.1%
ADHD Stimulant Medication Patients of Age 18-25 Years	517,808	12,048	2.3%	8,479	1.6%	6,713	1.3%	25,311	4.9%
ADHD Non-Stimulant Medication Patients of Age 18-25 Years	71,540	1,340	1.9%	976	1.4%	691	1.0%	2,623	3.7%
Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years	165,303	195	0.1%	150	0.1%	126	0.1%	635	0.4%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		301-360 Days		361-420 Days		421-480 Days		481+ Days	
		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
ADHD Stimulant Medication Patients of Age 26-44 Years	815,084	27,099	3.3%	20,126	2.5%	16,259	2.0%	75,168	9.2%
ADHD Non-Stimulant Medication Patients of Age 26-44 Years	133,146	2,864	2.2%	2,203	1.7%	1,620	1.2%	6,836	5.1%
Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years	986,980	5,152	0.5%	3,889	0.4%	3,330	0.3%	19,932	2.0%
ADHD Stimulant Medication Patients of Age 45-64 Years	459,592	13,438	2.9%	9,984	2.2%	8,082	1.8%	42,141	9.2%
ADHD Non-Stimulant Medication Patients of Age 45-64 Years	117,196	3,301	2.8%	2,419	2.1%	1,820	1.6%	8,463	7.2%
Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	3,018,786	21,613	0.7%	16,426	0.5%	13,724	0.5%	81,257	2.7%
ADHD Stimulant Medication Patients of Age 65+ Years	258,394	5,171	2.0%	4,028	1.6%	2,978	1.2%	15,051	5.8%
ADHD Non-Stimulant Medication Patients of Age 65+ Years	174,579	5,632	3.2%	4,423	2.5%	3,506	2.0%	18,512	10.6%
Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years	8,664,966	44,512	0.5%	32,944	0.4%	25,694	0.3%	136,009	1.6%
ADHD Stimulant Medication Patients of Age 18+ Years	2,103,669	59,003	2.8%	43,497	2.1%	34,826	1.7%	160,154	7.6%

Table 3a. Categorical Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Number of Treatment Episodes by Duration							
		301-360 Days		361-420 Days		421-480 Days		481+ Days	
		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>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	500,334	13,236	2.6%	10,116	2.0%	7,703	1.5%	36,677	7.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	12,918,859	72,562	0.6%	54,308	0.4%	43,619	0.3%	241,067	1.9%

****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 January 1, 2017 to March 31, 2023

	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>	3,023,716	1	30	65	159	2,281	152.1	239.6
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	689,539	1	30	71	180	2,280	165.3	256.2
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	12,991,004	1	7	10	30	2,281	47.9	140.7
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	869,217	1	30	70	150	2,279	145.0	226.8
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	186,271	1	30	90	214	2,279	190.9	279.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	71,682	1	7	7	9	2,265	10.3	26.9
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	517,808	1	30	60	134	2,281	126.2	191.5
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	71,540	1	30	60	120	2,279	112.3	178.5
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	165,303	1	7	7	10	2,268	17.2	67.7
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	815,084	1	30	74	202	2,280	177.3	265.9
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	133,146	1	30	60	135	2,278	130.8	212.5
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	986,980	1	7	7	20	2,281	44.3	151.4
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	459,592	1	30	65	184	2,279	173.6	276.9

Table 3b. Continuous Summary of All Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Total Number of Episodes	Distribution of Treatment Episode Durations, days						Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean	
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	117,196	1	30	67	170	2,278	155.9	242.3
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	3,018,786	1	7	10	30	2,280	58.2	171.0
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	258,394	1	30	30	120	2,280	128.3	223.5
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	174,579	1	28	84	215	2,280	193.3	290.2
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	8,664,966	1	7	12	30	2,281	45.2	128.0
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	2,103,669	1	30	63	167	2,281	156.5	246.4
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	500,334	1	30	64	168	2,280	156.0	246.8
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	12,918,859	1	7	10	30	2,281	48.1	141.0

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>	1,415,727	581,137	41.0%	267,926	18.9%	145,408	10.3%	91,246	6.4%	64,439	4.6%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	244,350	48.0%	93,394	18.3%	45,762	9.0%	27,622	5.4%	19,968	3.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	7,288,132	90.1%	371,218	4.6%	122,706	1.5%	66,113	0.8%	43,620	0.5%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	146,762	38.8%	81,622	21.6%	44,049	11.7%	24,712	6.5%	16,360	4.3%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	53,285	41.4%	23,053	17.9%	12,859	10.0%	8,275	6.4%	5,881	4.6%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	68,066	99.6%	168	0.2%	33	0.0%	19	0.0%	*****	*****
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	115,276	44.9%	53,220	20.7%	26,704	10.4%	15,723	6.1%	10,663	4.2%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	33,187	57.9%	10,754	18.7%	4,773	8.3%	2,579	4.5%	1,589	2.8%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	146,149	98.0%	1,466	1.0%	466	0.3%	268	0.2%	181	0.1%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	155,275	36.1%	76,190	17.7%	44,982	10.5%	30,894	7.2%	22,990	5.4%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	57,140	54.5%	19,355	18.4%	9,253	8.8%	5,000	4.8%	3,376	3.2%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	697,685	92.6%	21,717	2.9%	8,048	1.1%	4,963	0.7%	3,392	0.5%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	228,595	94,184	41.2%	38,004	16.6%	20,863	9.1%	14,571	6.4%	10,723	4.7%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	87,845	43,450	49.5%	16,544	18.8%	7,597	8.6%	4,689	5.3%	3,283	3.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	1,962,540	1,726,688	88.0%	94,342	4.8%	34,917	1.8%	20,417	1.0%	14,070	0.7%
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	76,168	56.9%	21,015	15.7%	9,636	7.2%	5,811	4.3%	4,004	3.0%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	58,030	44.0%	23,983	18.2%	11,399	8.6%	7,160	5.4%	5,873	4.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	4,686,123	90.1%	255,971	4.9%	80,148	1.5%	40,944	0.8%	26,323	0.5%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	438,145	42.0%	187,525	18.0%	101,784	9.8%	66,731	6.4%	48,206	4.6%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	191,416	50.2%	70,468	18.5%	32,958	8.6%	19,384	5.1%	14,098	3.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	7,220,883	90.0%	371,060	4.6%	122,675	1.5%	66,097	0.8%	43,612	0.5%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Number of Patients by First Treatment Episode Duration								
	301-360 Days			361-420 Days		421-480 Days		481+ Days	
	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
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years</i>	1,415,727	49,049	3.5%	36,707	2.6%	29,358	2.1%	150,457	10.6%
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	14,314	2.8%	10,974	2.2%	8,541	1.7%	44,160	8.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	32,361	0.4%	24,237	0.3%	19,855	0.2%	122,339	1.5%
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	11,792	3.1%	8,730	2.3%	7,119	1.9%	36,717	9.7%
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	4,424	3.4%	3,378	2.6%	2,700	2.1%	14,703	11.4%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	*****	*****	*****	*****	*****	*****	18	0.0%
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	7,726	3.0%	5,559	2.2%	4,348	1.7%	17,713	6.9%
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	1,057	1.8%	767	1.3%	538	0.9%	2,112	3.7%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	98	0.1%	80	0.1%	67	0.0%	359	0.2%
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	18,387	4.3%	13,828	3.2%	11,048	2.6%	56,084	13.1%
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	2,246	2.1%	1,703	1.6%	1,252	1.2%	5,602	5.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	2,681	0.4%	2,001	0.3%	1,710	0.2%	11,293	1.5%
<i>ADHD Stimulant Medication Patients of Age 45-64 Years</i>	228,595	8,357	3.7%	6,331	2.8%	5,184	2.3%	30,378	13.3%

Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	Number of Patients by First Treatment Episode Duration								
	301-360 Days			361-420 Days		421-480 Days		481+ Days	
	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
ADHD Non-Stimulant Medication Patients of Age 45-64 Years	87,845	2,427	2.8%	1,801	2.1%	1,374	1.6%	6,680	7.6%
Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	1,962,540	10,987	0.6%	8,299	0.4%	7,006	0.4%	45,814	2.3%
ADHD Stimulant Medication Patients of Age 65+ Years	133,749	2,978	2.2%	2,413	1.8%	1,782	1.3%	9,942	7.4%
ADHD Non-Stimulant Medication Patients of Age 65+ Years	131,814	4,190	3.2%	3,350	2.5%	2,697	2.0%	15,132	11.5%
Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years	5,199,182	18,847	0.4%	14,043	0.3%	11,235	0.2%	65,548	1.3%
ADHD Stimulant Medication Patients of Age 18+ Years	1,043,875	37,322	3.6%	28,028	2.7%	22,281	2.1%	113,853	10.9%
ADHD Non-Stimulant Medication Patients of Age 18+ Years	381,159	9,903	2.6%	7,606	2.0%	5,845	1.5%	29,481	7.7%
Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years	8,023,085	32,352	0.4%	24,234	0.3%	19,850	0.2%	122,322	1.5%

****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 January 1, 2017 to March 31, 2023

	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>	1,415,727	1	30	86	223	2,281	196.6	291.5
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	509,085	1	30	66	180	2,280	170.5	270.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	8,090,581	1	7	9	26	2,281	39.8	133.0
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	377,863	1	30	90	206	2,279	190.7	285.2
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	128,558	1	30	90	234	2,279	204.6	300.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	68,330	1	7	7	9	2,265	9.6	17.9
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	256,932	1	30	72	175	2,281	154.3	224.0
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	57,356	1	30	59	120	2,279	111.9	182.0
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	149,134	1	7	7	8	2,268	14.3	55.8
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	429,678	1	30	104	278	2,280	225.6	310.6
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	104,927	1	30	60	134	2,278	132.1	219.6
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	753,490	1	7	7	14	2,281	34.9	135.6

Table 4b. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>	228,595	1	30	90	261	2,279	223.8	332.4
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	87,845	1	30	62	168	2,278	158.4	253.1
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	1,962,540	1	7	8	28	2,280	50.4	166.0
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	1	30	39	136	2,280	146.7	258.7
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	1	28	84	224	2,280	201.0	307.7
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	1	7	10	30	2,281	37.6	119.9
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	1	30	85	229	2,281	198.1	293.1
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	1	30	60	168	2,280	159.0	258.5
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	1	7	9	26	2,281	40.0	133.5

Table 5. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>	1,607,989	31	41	63	119	2,230	124.4	179.8
<i>ADHD Non-Stimulant Medication Patients of Age 5+ Years</i>	180,454	31	44	71	152	2,229	157.1	231.5
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years</i>	4,900,423	31	53	106	300	2,264	252.8	336.4
<i>ADHD Stimulant Medication Patients of Age 5-17 Years</i>	491,354	31	41	62	109	2,226	112.4	156.5
<i>ADHD Non-Stimulant Medication Patients of Age 5-17 Years</i>	57,713	31	44	72	158	2,178	161.3	233.2
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years</i>	3,352	31	84	186	374	2,219	288.4	303.1
<i>ADHD Stimulant Medication Patients of Age 18-25 Years</i>	260,876	31	42	65	123	2,105	119.8	158.6
<i>ADHD Non-Stimulant Medication Patients of Age 18-25 Years</i>	14,184	31	43	70	143	2,111	142.3	200.5
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years</i>	16,169	31	62	141	345	2,205	265.3	306.9
<i>ADHD Stimulant Medication Patients of Age 26-44 Years</i>	385,406	31	41	61	116	2,199	123.5	181.7
<i>ADHD Non-Stimulant Medication Patients of Age 26-44 Years</i>	28,219	31	45	74	164	2,173	163.5	235.0
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years</i>	233,490	31	54	112	298	2,256	244.3	312.2

Table 5. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023

	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>	230,997	31	41	62	120	2,158	123.6	178.7
<i>ADHD Non-Stimulant Medication Patients of Age 45-64 Years</i>	29,351	31	44	71	146	2,178	150.8	223.0
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years</i>	1,056,246	31	53	104	276	2,264	233.2	306.1
<i>ADHD Stimulant Medication Patients of Age 65+ Years</i>	124,645	31	42	65	133	2,230	132.5	185.3
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	42,765	31	42	66	131	2,115	138.5	207.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	3,465,784	31	53	105	300	2,264	253.6	339.7
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,059,794	31	41	63	123	2,230	127.2	184.7
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	119,175	31	44	70	147	2,178	152.2	225.4
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	4,895,774	31	53	106	300	2,264	252.6	336.3

Table 6. Summary of Reasons First Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Total	Censoring Reason									
		End of Exposure Episode ²		Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
		Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of
	Number of Patients	Number of Patients	Total Patients	Number of Patients	Total Patients	Number of Patients	Total Patients	Number of Patients	Total Patients	Number of Patients	Total Patients
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years	1,415,727	1,245,121	87.9%	5,550	0.4%	167,147	11.8%	0	0.0%	168,282	11.9%
ADHD Non-Stimulant Medication Patients of Age 5+ Years	509,085	440,016	86.4%	12,510	2.5%	39,963	7.8%	0	0.0%	58,075	11.4%
Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	8,090,581	7,754,590	95.8%	210,441	2.6%	92,343	1.1%	0	0.0%	141,415	1.7%
ADHD Stimulant Medication Patients of Age 5-17 Years	377,863	332,277	87.9%	20	0.0%	38,442	10.2%	0	0.0%	46,154	12.2%
ADHD Non-Stimulant Medication Patients of Age 5-17 Years	128,558	110,774	86.2%	18	0.0%	14,806	11.5%	0	0.0%	18,020	14.0%
Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years	68,330	68,189	99.8%	23	0.0%	143	0.2%	0	0.0%	123	0.2%
ADHD Stimulant Medication Patients of Age 18-25 Years	256,932	235,640	91.7%	38	0.0%	28,586	11.1%	0	0.0%	21,669	8.4%
ADHD Non-Stimulant Medication Patients of Age 18-25 Years	57,356	51,817	90.3%	32	0.1%	4,076	7.1%	0	0.0%	5,620	9.8%
Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years	149,134	148,525	99.6%	79	0.1%	712	0.5%	0	0.0%	553	0.4%
ADHD Stimulant Medication Patients of Age 26-44 Years	429,678	367,409	85.5%	368	0.1%	70,310	16.4%	0	0.0%	63,182	14.7%
ADHD Non-Stimulant Medication Patients of Age 26-44 Years	104,927	92,554	88.2%	291	0.3%	8,859	8.4%	0	0.0%	12,333	11.8%
Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years	753,490	742,075	98.5%	1,797	0.2%	11,619	1.5%	0	0.0%	10,028	1.3%
ADHD Stimulant Medication Patients of Age 45-64 Years	228,595	199,677	87.3%	940	0.4%	26,837	11.7%	0	0.0%	28,527	12.5%
ADHD Non-Stimulant Medication Patients of Age 45-64 Years	87,845	78,155	89.0%	1,156	1.3%	6,955	7.9%	0	0.0%	8,771	10.0%
Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	1,962,540	1,902,780	97.0%	18,379	0.9%	43,094	2.2%	0	0.0%	43,917	2.2%

Table 6. Summary of Reasons First Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	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>ADHD Stimulant Medication Patients of Age 65+ Years</i>	133,749	119,755	89.5%	4,193	3.1%	3,542	2.6%	0	0.0%	10,210	7.6%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	131,814	107,851	81.8%	11,018	8.4%	5,346	4.1%	0	0.0%	13,608	10.3%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	5,199,182	4,932,712	94.9%	190,601	3.7%	37,439	0.7%	0	0.0%	88,831	1.7%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	1,043,875	918,293	88.0%	5,530	0.5%	128,904	12.3%	0	0.0%	122,696	11.8%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	381,159	329,754	86.5%	12,492	3.3%	25,178	6.6%	0	0.0%	40,176	10.5%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	8,023,085	7,687,229	95.8%	210,419	2.6%	92,201	1.1%	0	0.0%	141,297	1.8%

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.

Table 7. Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Total	Censoring Reason									
		End of Exposure Episode ²		Evidence of Death ³		Disenrollment ⁴		End of Data ⁵		End of Study Period ⁶	
		Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of	Percent of
	Number of Episodes	Number of Episodes	Total Episodes	Number of Episodes	Total Episodes	Number of Episodes	Total Episodes	Number of Episodes	Total Episodes	Number of Episodes	Total Episodes
Attention-Deficit/Hyperactivity Disorder (ADHD) Stimulant Medication Patients of Age 5+ Years	3,023,716	2,694,544	89.1%	7,227	0.2%	260,981	8.6%	0	0.0%	328,043	10.8%
ADHD Non-Stimulant Medication Patients of Age 5+ Years	689,539	594,199	86.2%	15,429	2.2%	51,896	7.5%	0	0.0%	81,899	11.9%
Schedule II (C-II) Opioid Analgesics Patients of Age 5+ Years	12,991,004	12,358,991	95.1%	306,244	2.4%	169,781	1.3%	0	0.0%	351,624	2.7%
ADHD Stimulant Medication Patients of Age 5-17 Years	869,217	777,248	89.4%	24	0.0%	62,713	7.2%	0	0.0%	93,232	10.7%
ADHD Non-Stimulant Medication Patients of Age 5-17 Years	186,271	160,175	86.0%	26	0.0%	19,510	10.5%	0	0.0%	26,417	14.2%
Schedule II (C-II) Opioid Analgesics Patients of Age 5-17 Years	71,682	71,509	99.8%	36	0.1%	187	0.3%	0	0.0%	146	0.2%
ADHD Stimulant Medication Patients of Age 18-25 Years	517,808	476,502	92.0%	57	0.0%	45,452	8.8%	0	0.0%	42,075	8.1%
ADHD Non-Stimulant Medication Patients of Age 18-25 Years	71,540	64,291	89.9%	44	0.1%	5,051	7.1%	0	0.0%	7,345	10.3%
Schedule II (C-II) Opioid Analgesics Patients of Age 18-25 Years	165,303	164,366	99.4%	130	0.1%	1,107	0.7%	0	0.0%	842	0.5%
ADHD Stimulant Medication Patients of Age 26-44 Years	815,084	709,543	87.1%	546	0.1%	100,476	12.3%	0	0.0%	107,125	13.1%
ADHD Non-Stimulant Medication Patients of Age 26-44 Years	133,146	117,112	88.0%	405	0.3%	10,902	8.2%	0	0.0%	15,955	12.0%
Schedule II (C-II) Opioid Analgesics Patients of Age 26-44 Years	986,980	964,047	97.7%	3,110	0.3%	19,645	2.0%	0	0.0%	20,561	2.1%
ADHD Stimulant Medication Patients of Age 45-64 Years	459,592	407,399	88.6%	1,262	0.3%	40,429	8.8%	0	0.0%	51,942	11.3%
ADHD Non-Stimulant Medication Patients of Age 45-64 Years	117,196	103,919	88.7%	1,565	1.3%	9,002	7.7%	0	0.0%	12,028	10.3%
Schedule II (C-II) Opioid Analgesics Patients of Age 45-64 Years	3,018,786	2,900,057	96.1%	29,718	1.0%	76,586	2.5%	0	0.0%	93,456	3.1%

Table 7. Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	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 Stimulant Medication Patients of Age 65+ Years</i>	258,394	232,425	89.9%	5,289	2.0%	5,731	2.2%	0	0.0%	21,299	8.2%
<i>ADHD Non-Stimulant Medication Patients of Age 65+ Years</i>	174,579	143,030	81.9%	13,329	7.6%	6,917	4.0%	0	0.0%	19,060	10.9%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 65+ Years</i>	8,664,966	8,183,283	94.4%	272,279	3.1%	69,377	0.8%	0	0.0%	229,830	2.7%
<i>ADHD Stimulant Medication Patients of Age 18+ Years</i>	2,103,669	1,871,375	89.0%	7,201	0.3%	196,432	9.3%	0	0.0%	229,819	10.9%
<i>ADHD Non-Stimulant Medication Patients of Age 18+ Years</i>	500,334	431,561	86.3%	15,403	3.1%	32,199	6.4%	0	0.0%	55,009	11.0%
<i>Schedule II (C-II) Opioid Analgesics Patients of Age 18+ Years</i>	12,918,859	12,287,027	95.1%	306,207	2.4%	169,580	1.3%	0	0.0%	351,470	2.7%

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.

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Total Number of Patients	Number of Patients by Observable Time					
		0-30 days		31-60 days		61-90 days	
		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) Non-Stimulant Medication (Patients of Age 5+ Years)</i>	509,085	22,916	4.5%	22,072	4.3%	19,775	3.9%
<i>ADHD Stimulant Medication (Patients of Age 5+ Years)</i>	1,415,727	49,194	3.5%	56,182	4.0%	53,397	3.8%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5+ Years)</i>	8,090,581	348,900	4.3%	275,954	3.4%	242,938	3.0%
<i>ADHD Non-Stimulant Medication (Patients of Age 5-17 Years)</i>	128,558	4,567	3.6%	5,107	4.0%	4,694	3.7%
<i>ADHD Stimulant Medication (Patients of Age 5-17 Years)</i>	377,863	12,309	3.3%	14,410	3.8%	13,193	3.5%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5-17 Years)</i>	68,330	1,472	2.2%	1,648	2.4%	1,555	2.3%
<i>ADHD Non-Stimulant Medication (Patients of Age 18-25 Years)</i>	57,356	2,424	4.2%	2,921	5.1%	2,523	4.4%
<i>ADHD Stimulant Medication (Patients of Age 18-25 Years)</i>	256,932	8,230	3.2%	9,982	3.9%	10,059	3.9%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18-25 Years)</i>	149,134	4,548	3.0%	5,192	3.5%	5,148	3.5%
<i>ADHD Non-Stimulant Medication (Patients of Age 26-44 Years)</i>	104,927	5,064	4.8%	5,582	5.3%	5,017	4.8%
<i>ADHD Stimulant Medication (Patients of Age 26-44 Years)</i>	429,678	17,141	4.0%	19,079	4.4%	18,399	4.3%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 26-44 Years)</i>	753,490	21,750	2.9%	25,309	3.4%	25,003	3.3%
<i>ADHD Non-Stimulant Medication (Patients of Age 45-64 Years)</i>	87,845	3,347	3.8%	3,448	3.9%	3,195	3.6%
<i>ADHD Stimulant Medication (Patients of Age 45-64 Years)</i>	228,595	7,256	3.2%	8,089	3.5%	7,715	3.4%

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Total Number of Patients	Number of Patients by Observable Time					
		0-30 days		31-60 days		61-90 days	
		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 45-64 Years)</i>	1,962,540	59,042	3.0%	65,091	3.3%	62,235	3.2%
<i>ADHD Non-Stimulant Medication (Patients of Age 65+ Years)</i>	131,814	7,610	5.8%	5,103	3.9%	4,437	3.4%
<i>ADHD Stimulant Medication (Patients of Age 65+ Years)</i>	133,749	4,809	3.6%	5,138	3.8%	4,619	3.5%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 65+ Years)</i>	5,199,182	264,119	5.1%	180,766	3.5%	150,888	2.9%
<i>ADHD Non-Stimulant Medication (Patients of Age 18+ Years)</i>	381,159	18,384	4.8%	17,006	4.5%	15,121	4.0%
<i>ADHD Stimulant Medication (Patients of Age 18+ Years)</i>	1,043,875	37,124	3.6%	42,015	4.0%	40,494	3.9%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18+ Years)</i>	8,023,085	347,456	4.3%	274,337	3.4%	241,412	3.0%

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Number of Patients by Observable Time							
	91-183 days		184-365 days		366-455 days		456+ 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) Non-Stimulant Medication (Patients of Age 5+ Years)</i>	52,071	10.2%	84,854	16.7%	35,398	7.0%	271,999	53.4%
<i>ADHD Stimulant Medication (Patients of Age 5+ Years)</i>	143,008	10.1%	248,339	17.5%	106,428	7.5%	759,179	53.6%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5+ Years)</i>	631,419	7.8%	1,038,710	12.8%	434,306	5.4%	5,118,354	63.3%
<i>ADHD Non-Stimulant Medication (Patients of Age 5-17 Years)</i>	12,667	9.9%	21,677	16.9%	9,068	7.1%	70,778	55.1%
<i>ADHD Stimulant Medication (Patients of Age 5-17 Years)</i>	35,214	9.3%	59,644	15.8%	28,270	7.5%	214,823	56.9%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5-17 Years)</i>	4,937	7.2%	8,699	12.7%	3,234	4.7%	46,785	68.5%
<i>ADHD Non-Stimulant Medication (Patients of Age 18-25 Years)</i>	7,073	12.3%	11,415	19.9%	4,755	8.3%	26,245	45.8%
<i>ADHD Stimulant Medication (Patients of Age 18-25 Years)</i>	27,927	10.9%	49,603	19.3%	21,227	8.3%	129,904	50.6%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18-25 Years)</i>	15,245	10.2%	26,018	17.4%	9,765	6.5%	83,218	55.8%
<i>ADHD Non-Stimulant Medication (Patients of Age 26-44 Years)</i>	13,056	12.4%	20,241	19.3%	7,852	7.5%	48,115	45.9%
<i>ADHD Stimulant Medication (Patients of Age 26-44 Years)</i>	49,382	11.5%	84,983	19.8%	34,368	8.0%	206,326	48.0%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 26-44 Years)</i>	71,329	9.5%	118,320	15.7%	46,142	6.1%	445,637	59.1%
<i>ADHD Non-Stimulant Medication (Patients of Age 45-64 Years)</i>	8,517	9.7%	14,426	16.4%	5,874	6.7%	49,038	55.8%
<i>ADHD Stimulant Medication (Patients of Age 45-64 Years)</i>	21,094	9.2%	38,275	16.7%	15,659	6.9%	130,507	57.1%

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2017 to March 31, 2023¹

	Number of Patients by Observable Time							
	91-183 days		184-365 days		366-455 days		456+ 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 45-64 Years)</i>	173,261	8.8%	291,574	14.9%	119,328	6.1%	1,192,009	60.7%
<i>ADHD Non-Stimulant Medication (Patients of Age 65+ Years)</i>	10,937	8.3%	17,408	13.2%	7,963	6.0%	78,356	59.4%
<i>ADHD Stimulant Medication (Patients of Age 65+ Years)</i>	10,790	8.1%	18,142	13.6%	8,040	6.0%	82,211	61.5%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 65+ Years)</i>	371,950	7.2%	602,399	11.6%	259,236	5.0%	3,369,824	64.8%
<i>ADHD Non-Stimulant Medication (Patients of Age 18+ Years)</i>	39,486	10.4%	63,328	16.6%	26,385	6.9%	201,449	52.9%
<i>ADHD Stimulant Medication (Patients of Age 18+ Years)</i>	108,521	10.4%	189,928	18.2%	78,797	7.5%	546,996	52.4%
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18+ Years)</i>	626,576	7.8%	1,030,177	12.8%	431,121	5.4%	5,072,006	63.2%

¹Time to end of observable data is for characterization purposes only. It does not necessarily represent at-risk time, and does not consider episode end, outcome occurrence, blackout period, or delay risk period start.

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to March 31, 2023¹

	Distribution of Observable Time in Days, by Episode						Standard Deviation
	Minimum	Q1	Median	Q3	Maximum	Mean	
<i>Attention-Deficit/Hyperactivity Disorder (ADHD) Non-Stimulant Medication (Patients of Age 5+ Years)</i>	1	203	508	1,045	2,281	681.5	581.8
<i>ADHD Stimulant Medication (Patients of Age 5+ Years)</i>	1	220	509	1,027	2,281	684.7	578.3
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5+ Years)</i>	1	271	711	1,388	2,281	861.5	667.3
<i>ADHD Non-Stimulant Medication (Patients of Age 5-17 Years)</i>	1	224	532	1,093	2,281	707.3	588.1
<i>ADHD Stimulant Medication (Patients of Age 5-17 Years)</i>	1	241	559	1,136	2,281	733.0	597.4
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 5-17 Years)</i>	1	337	864	1,601	2,281	978.7	692.2
<i>ADHD Non-Stimulant Medication (Patients of Age 18-25 Years)</i>	1	175	408	785	2,280	555.1	492.8
<i>ADHD Stimulant Medication (Patients of Age 18-25 Years)</i>	1	211	464	869	2,281	607.8	508.8
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18-25 Years)</i>	1	230	539	1,045	2,281	698.7	573.1
<i>ADHD Non-Stimulant Medication (Patients of Age 26-44 Years)</i>	1	165	404	847	2,281	586.0	542.8
<i>ADHD Stimulant Medication (Patients of Age 26-44 Years)</i>	1	190	432	875	2,281	609.7	544.8
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 26-44 Years)</i>	1	249	612	1,225	2,281	783.8	632.4
<i>ADHD Non-Stimulant Medication (Patients of Age 45-64 Years)</i>	1	225	549	1,110	2,281	715.6	591.0
<i>ADHD Stimulant Medication (Patients of Age 45-64 Years)</i>	1	242	570	1,143	2,281	740.6	603.6

Table 8. Summary of Time to End of Observable Data for Exposures of Interest in the Sentinel Distributed Database from January 1, 2017 to March 31, 2023¹

	Distribution of Observable Time in Days, by Episode						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 45-64 Years)</i>	1	262	642	1,247	2,281	800.2	631.4
<i>ADHD Non-Stimulant Medication (Patients of Age 65+ Years)</i>	1	231	620	1,200	2,281	762.0	614.0
<i>ADHD Stimulant Medication (Patients of Age 65+ Years)</i>	1	260	673	1,310	2,281	822.6	642.7
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 65+ Years)</i>	1	281	760	1,459	2,281	896.1	683.2
<i>ADHD Non-Stimulant Medication (Patients of Age 18+ Years)</i>	1	197	500	1,027	2,281	672.4	579.2
<i>ADHD Stimulant Medication (Patients of Age 18+ Years)</i>	1	213	492	986	2,281	666.1	569.4
<i>Schedule II (C-II) Opioid Analgesics (Patients of Age 18+ Years)</i>	1	270	710	1,387	2,281	860.4	667.0

¹Time to end of observable data is for characterization purposes only. It does not necessarily represent at-risk time, and does not consider episode end, outcome occurrence, blackout period, or delay risk period start.

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	Zamicet
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

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

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

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

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

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

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

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

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

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

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
olliceridine 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	Guaiaatussin 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	Zutripro
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 Intenso
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 Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213088	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213089	Bypass Coronary Artery, Four or More Arteries from Left Internal Mammary with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308C	Bypass Coronary Artery, Four or More Arteries from Thoracic Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308F	Bypass Coronary Artery, Four or More Arteries from Abdominal Artery with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
021308W	Bypass Coronary Artery, Four or More Arteries from Aorta with Zooplastic Tissue, Open Approach	Procedure	ICD-10-PCS
0213093	Bypass Coronary Artery, Four or More Arteries from Coronary Artery with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
0213098	Bypass Coronary Artery, Four or More Arteries from Right Internal Mammary with Autologous Venous Tissue, Open Approach	Procedure	ICD-10-PCS
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

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
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

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
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

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
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

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
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

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
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

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
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

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
I80.10	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

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
I82.709	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

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.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

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
I83.891	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

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
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

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
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

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
I97.638	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

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
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

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
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

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
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

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
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

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
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

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
F19.982	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

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
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

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
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

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
F13.24	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, 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;
	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, 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;	
	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									
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	
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									
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	
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

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
	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

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
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 ADOPE)	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	opioidnonbenzodiazepine (ComboCode NBWOPIOIDAG) edopiodnonbenzodiazepine (ComboCode NBOPED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Antipsychotics with C-II Opioid Analgesic	N/A	opioidantipsychotic (ComboCode APWOPIOIDAG) edopiodantipsychotic (ComboCode AOPED)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Exposures ADHD Stimulant with ADHD Non-Stimulant	N/A	adhdstimadhdnonstim (ComboCode EXPSTIMWNST) edadhdstimadhdnonstim (ComboCode ASNSD)	1 2	0 0	N/A N/A	0 1	N/A 0,5
Exposures ADHD Stimulant with C-II Opioid Analgesic	N/A	adhdstimopioid (ComboCode EXPSTIMWOPI) edadhdstimopioid (ComboCode ASOPED)	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 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
		edadhdnonstimopioidall (ComboCode NS2PED)	2	0	N/A	1	0,5

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
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 Type	Raw Record End Date Type	Note
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

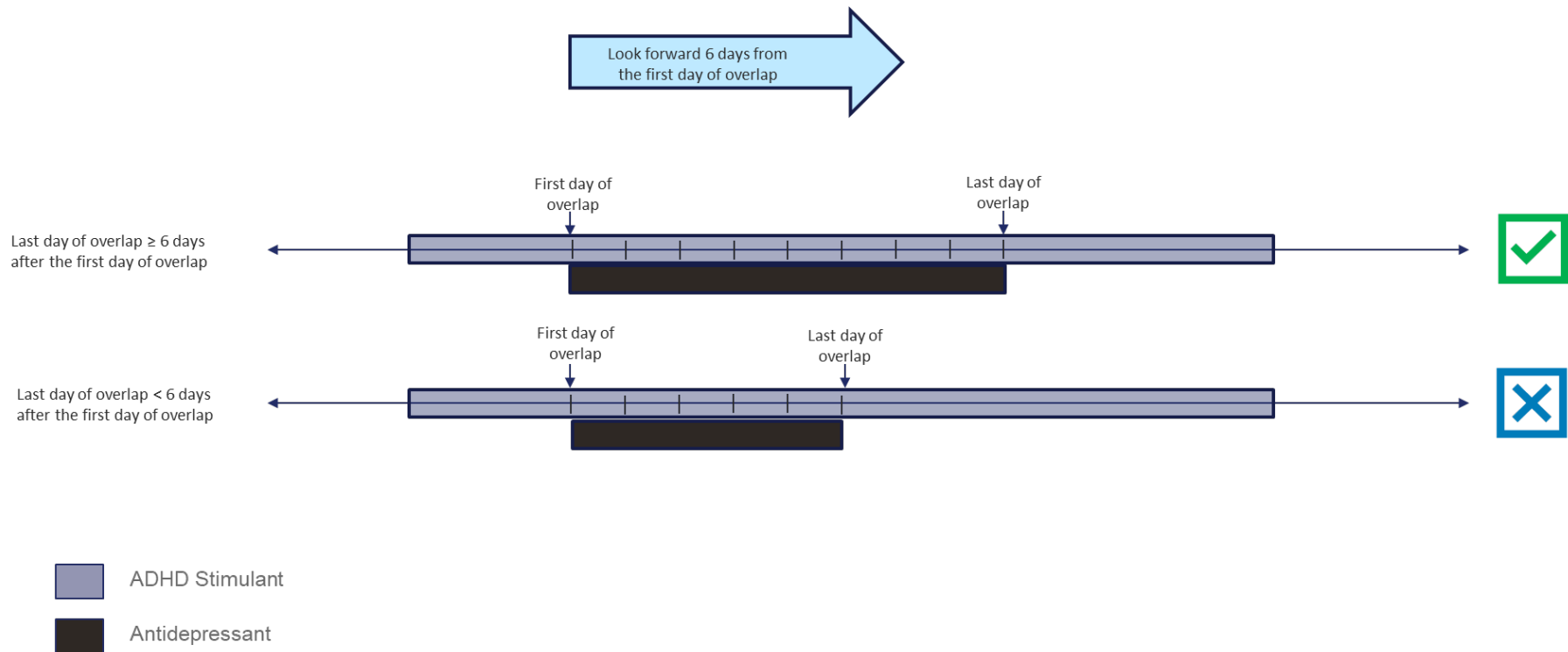
Combination Group	Raw Record Window from End Date	Raw Record Duration	Raw Record Start Date	Raw Record End Date	Note
			Type	Type	
Exposures ADHD Non-Stimulant with C-II Opioid Analgesic	N/A N/A	N/A N/A	N/A ADATEB	N/A EDATEB	
Exposures all Opioid Analgesic with ADHD Stimulant	N/A 0	N/A N/A	N/A MINOVER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

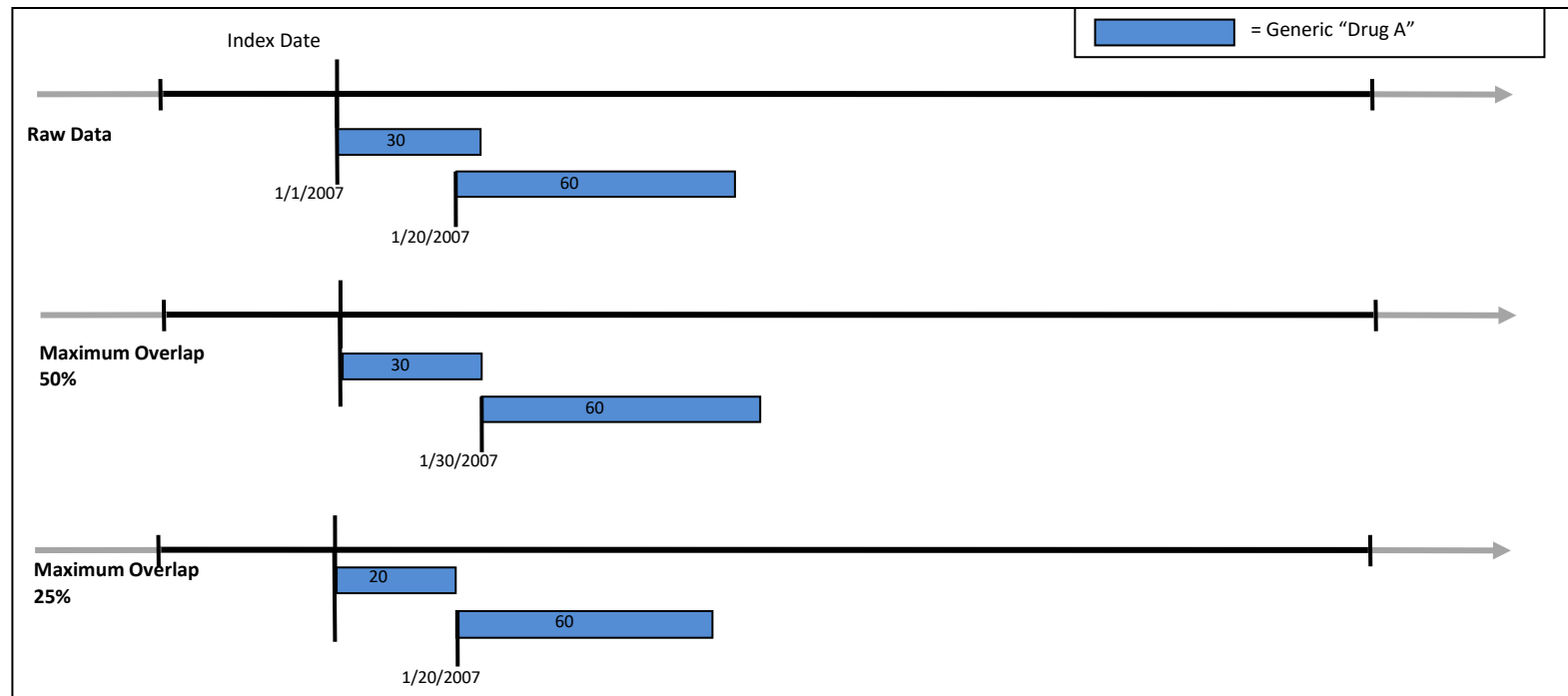
Number of Codes to Return	MFU Evaluation Period Start	MFU Evaluation Period End	Code Category	Code Type	Encounter Caresetting	Principal Encounter	Counting Method
20	-30	0	Diagnosis codes	ICD-10	Any care setting	Any	The MFU output is sorted by patient counts

Appendix J. Specifications Defining Stockpiling Parameters Used for this Request

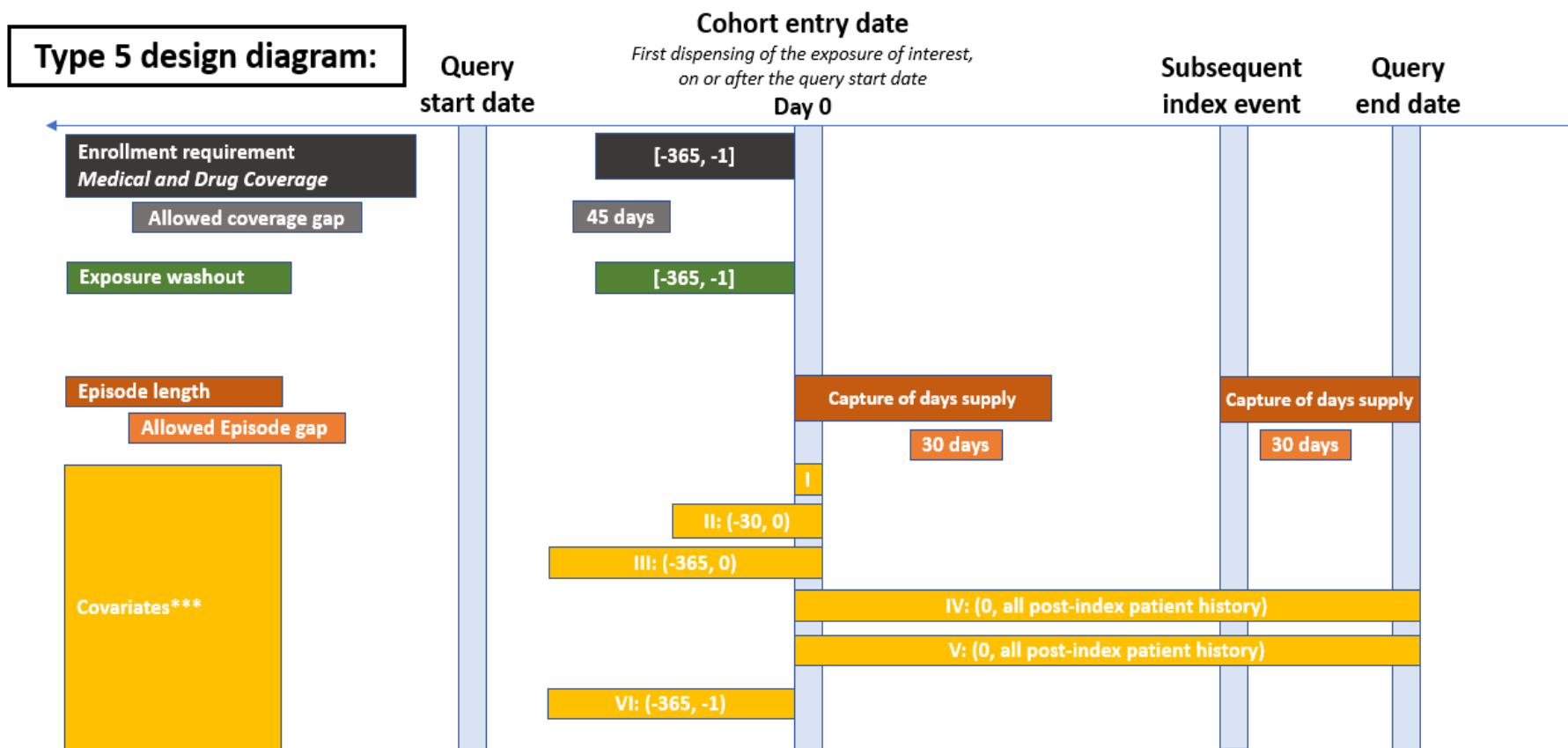
Stockpiling					
Stockpiling Group	Same Day Dispensing Processing for Days Supplied	Same Day Dispensing Processing for Amount Supplied	Range of Allowable Days Supplied Values	Range of Allowable Amount Supplied Values	Overlap Percentage*
Use drug class for the stockpiling except when calculating average 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