

## Disclaimer

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

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

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

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

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## Overview for Request: cder\_mpl1r\_wp229

**Request ID:** cder\_mpl1r\_wp229

**Request Description:** In this report we examined counts of individuals exposed to long-acting injectable antipsychotics (LAIA) in the Sentinel Distributed Database (SDD) and described demographic, health and treatment characteristics of these individuals.

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 11.3.0

**Data Source:** We distributed this query to one Sentinel Data Partner on September 27, 2022. This Data Partner is a subset of the SDD. Data from Medicare patients having both fee-for-service medical coverage and Part D drug coverage are included. The study period included data from January 1, 2010 through December 31, 2021. Please see Appendix A for a list of dates of available data for this Data Partner.

**Study Design:** We identified individuals with incident and prevalent use of LAIA who were at least 18 years of age at the time of the LAIA dispensing or procedure. This is a Type 1 analysis in the Query Request Package (QRP) documentation.

**Exposure(s)/Events of Interest:** We defined the exposure of interest, LAIA, using National Drug Codes (NDCs) and Healthcare Common Procedure Coding System (HCPCS) codes. Each qualifying dispensing of LAIA was identified; cohort re-entry was allowed. Please see Appendix B for a list of generic and brand names of medical products and Appendix C for a list of HCPCS used to define exposures in this request.

**Cohort Eligibility Criteria:** We required members to be enrolled in health plans with medical and drug coverage in the 183 days prior to their index date in order to be included in the cohort; a gap in coverage of up to 45 days was allowed and treated as continuous enrollment. The following age groups were included in the cohort: 18-64 years and 65+ years. We created nine cohorts and further defined each cohort once with a washout that excluded index exposure episodes if there was evidence of LAIA use in the 183 days prior to the exposure of interest and again without any washout criteria applied. See Appendix D for a list of generic and brand names of medical products and Appendix E for a list of HCPCS used to define incidence criteria.

We formed the nine separate cohort groups for the exposures of interest based on the following inclusions:

1. LAIA Users: No additional inclusion/exclusion criteria were applied to this cohort.
2. Institutional Stays Among LAIA Users: Required evidence of a previous non-acute institutional stay within the 183 days prior to LAIA exposure.
3. LAIA with Institutional Stay 60 Days Prior: Required evidence of a previous non-acute institutional stay within the 60 days prior to LAIA exposure.
4. LAIA Between Institutional Stay Admit and Discharge Dates: Required evidence of LAIA exposure that occurred between a non-acute institutional stay admission date and discharge date.
5. Dementia Among LAIA Users: Required evidence of dementia diagnosis and treatment within the 183 days prior to LAIA exposure.
6. Age 65 and Older Among LAIA Users: Required age greater than or equal to 65 years.
7. LAIA Users without Institutional Stays: Excluded records that had evidence of a previous non-acute institutional stay within the 183 days prior to LAIA exposure.
8. LAIA Users without Dementia: Excluded records that had evidence of dementia diagnosis and treatment within the 183 days prior to LAIA exposure.
9. Age Under 65 Among LAIA Users: Required age less than 65 years.

### Overview for Request: cder\_mpl1r\_wp229

**Baseline Characteristics:** We assessed the following characteristics in the 183 days prior to and including the index date of LAIA exposure: age; sex; combined comorbidity score<sup>1</sup>; substance abuse; atrial fibrillation/flutter; ischemic heart disease; heart failure; stroke; diabetes; hypertension; rheumatic disease; chronic kidney disease; seizure disorder; dementia; Parkinson's disease; Chronic Obstructive Pulmonary Disease (COPD); malignancy; asthma; hyperlipidemia; depression; schizophrenia; bipolar disorder; angiotensin-converting enzyme (ACE) inhibitor use; angiotensin receptor blocker (ARB) use;  $\beta$ -blocker use; oral anticoagulant use; antiplatelet agent use; opioid use; statin use; wheelchair or walker use; ambulatory encounters; inpatient encounters; anti-arrhythmic use; antidiabetic use; calcium channel blocker use; diuretic use; antidepressant use; gastric acid suppressant use; Non-Steroidal Anti-Inflammatory Drugs (NSAIDs); benzodiazepine-hypnotics use; chronic liver disease; pneumonia; cardiac arrhythmia; paliperidone palmitate; risperidone microspheres; haloperidol decanoate; number of institutional stays; age 65+ at index; dementia status at index (diagnosis only); antidementia treatment; injection status in the 183 days prior to index. We assessed the following characteristics in the 30-, 60-, and 90-day period (respectively) prior to and including the index date of LAIA exposure: injection status in the 30 days prior to index; injection status in the 60 days prior to index; injection status in the 90 days prior to index. Please see Appendices F and G for a list of diagnosis and procedure codes used to define baseline characteristics in this request. Please see Appendix H for a list of generic and brand names of medical products used to define baseline characteristics in this request.

**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@sentinelssystem.org](mailto:info@sentinelssystem.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.sentinelssystem.org/projects/SENTINEL/repos/sentinel-routine-querying-tool-documentation/browse>).

<sup>1</sup> The Combined Comorbidity Score is calculated based on comorbidities observed during a requester-defined window around the exposure episode start date. (Gagne 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 of Contents

<b><u>Glossary (CIDA)</u></b>	List of Terms to Define the Cohort Identification and Descriptive Analysis (CIDA) Found in this Report
<b><u>Table 1a</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1b</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1c</u></b>	Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1d</u></b>	Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1e</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1f</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1g</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1h</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1i</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1j</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1k</u></b>	Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1l</u></b>	Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1m</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1n</u></b>	Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1o</u></b>	Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1p</u></b>	Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1q</u></b>	Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 1r</u></b>	Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 2</u></b>	Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Sex
<b><u>Table 3</u></b>	Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Age Group

**Table of Contents**

<b><u>Table 4</u></b>	Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year
<b><u>Table 5</u></b>	Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race
<b><u>Table 6</u></b>	Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Hispanic Origin
<b><u>Table 7a</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7b</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7c</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7d</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7e</u></b>	Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7f</u></b>	Total Code Counts of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7g</u></b>	Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7h</u></b>	Total Code Counts of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7i</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7j</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7k</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7l</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7m</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7n</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7o</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7p</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7q</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021

**Table of Contents**

<b><u>Table 7r</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7s</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7t</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7u</u></b>	Full Code Distribution of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7v</u></b>	Total Code Counts of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7w</u></b>	Full Code Distribution of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7x</u></b>	Total Code Counts of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7y</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7z</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7aa</u></b>	Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ab</u></b>	Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ac</u></b>	Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ad</u></b>	Total Code Counts of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ae</u></b>	Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7af</u></b>	Total Code Counts of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ag</u></b>	Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ah</u></b>	Total Code Counts of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7ai</u></b>	Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Table 7aj</u></b>	Total Code Counts of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021
<b><u>Appendix A</u></b>	Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (September 27, 2022)
<b><u>Appendix B</u></b>	List of Generic and Brand Names of Medical Products Used to Define Exposures in this Request
<b><u>Appendix C</u></b>	List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Exposures in this Request

## Table of Contents

- Appendix D** List of Generic and Brand Names of Medical Products Used to Define Exposure Incidence Criteria in this Request
- Appendix E** List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Exposure Incidence Criteria in this Request
- Appendix F** List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request
- Appendix G** List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request
- Appendix H** List of Generic and Brand Names of Medical Products Used to Define Covariates in this Request
- Appendix I** Specifications Defining Parameters in this Request
- Appendix J** Specifications Defining Baseline Characteristics in this Request
- Appendix K** Diagram Detailing the Design of the 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.



**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. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	180,951	N/A
Episodes	230,378	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.0	16.2
Age	Number	Percent
18-64 years	187,248	81.3%
≥ 65 years	43,130	18.7%
Sex		
Female	78,427	43.3%
Male	102,524	56.7%
Race <sup>2</sup>		
American Indian or Alaska Native	1,875	1.0%
Asian	3,664	2.0%
Black or African American	52,050	28.8%
Unknown	13,402	7.4%
White	109,960	60.8%
Hispanic origin		
Yes	8,903	4.9%
No	167,549	92.6%
Unknown	4,499	2.5%
Year		
2010	11,368	4.9%
2011	23,799	10.3%
2012	24,139	10.5%
2013	23,903	10.4%
2014	21,630	9.4%
2015	20,767	9.0%
2016	20,424	8.9%
2017	19,903	8.6%
2018	19,092	8.3%
2019	17,518	7.6%
2020	14,182	6.2%
2021	13,653	5.9%
Health Characteristics		
Substance abuse	70,310	30.5%
Atrial fibrillation/flutter	7,489	3.3%
Ischemic heart disease	24,021	10.4%
Heart failure	15,005	6.5%
Stroke	9,224	4.0%
Diabetes	62,903	27.3%

**Table 1a. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA Users	
	Number	Percent
Hypertension	116,106	50.4%
Rheumatic disease	1,385	0.6%
Chronic kidney disease	29,581	12.8%
Seizure disorder	27,399	11.9%
Antidementia treatment	13,949	6.1%
Dementia Diagnosis	37,515	16.3%
Parkinsons disease	5,920	2.6%
COPD	39,778	17.3%
Malignancy	8,144	3.5%
Asthma	28,179	12.2%
Hyperlipidemia	81,584	35.4%
Depression	99,048	43.0%
Schizophrenia	179,914	78.1%
Bipolar disorder	95,673	41.5%
ACE inhibitor use	42,617	18.5%
ARB use	11,703	5.1%
Beta-blocker use	48,433	21.0%
Oral anticoagulant use	6,374	2.8%
Antiplatelet agent use	5,770	2.5%
Opioid use	43,136	18.7%
Statin use	54,367	23.6%
Wheelchair or walker use	1,942	0.8%
Anti-arrhythmic use	1,270	0.6%
Antidiabetic use	41,488	18.0%
Calcium channel blocker use	31,065	13.5%
Diuretic use	39,534	17.2%
Antidepressant use	123,890	53.8%
Gastric acid suppressant use	61,793	26.8%
NSAIDs	45,528	19.8%
Benzodiazepine-Hypnotics use	71,614	31.1%
Chronic liver disease	13,470	5.8%
Pneumonia	12,644	5.5%
Cardiac arrhythmia	30,400	13.2%
Paliperidone palmitate	100,339	43.6%
Risperidone microspheres	49,664	21.6%
Haloperidol decanoate	80,598	35.0%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1a. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	15.4	18.9
Mean number of emergency room encounters	1.5	3.3
Mean number of inpatient hospital encounters	0.4	0.9
Mean number of non-acute institutional encounters	0.9	1.2
Mean number of other ambulatory encounters	16.5	22.3

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1b. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	264,192	N/A
Episodes	8,663,455	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.5	14.3
Age	Number	Percent
18-64 years	7,287,158	84.1%
≥ 65 years	1,376,297	15.9%
Sex		
Female	110,080	41.7%
Male	154,112	58.3%
Race <sup>2</sup>		
American Indian or Alaska Native	2,621	1.0%
Asian	5,536	2.1%
Black or African American	77,643	29.4%
Unknown	20,970	7.9%
White	157,422	59.6%
Hispanic origin		
Yes	13,283	5.0%
No	243,222	92.1%
Unknown	7,687	2.9%
Year		
2010	305,977	3.5%
2011	677,877	7.8%
2012	747,568	8.6%
2013	815,466	9.4%
2014	825,115	9.5%
2015	800,695	9.2%
2016	798,187	9.2%
2017	787,993	9.1%
2018	779,540	9.0%
2019	760,577	8.8%
2020	710,725	8.2%
2021	653,735	7.5%
Health Characteristics		
Substance abuse	1,458,654	16.8%
Atrial fibrillation/flutter	161,385	1.9%
Ischemic heart disease	537,742	6.2%
Heart failure	361,756	4.2%
Stroke	179,994	2.1%
Diabetes	2,334,743	26.9%

**Table 1b. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA Users with No Washout	
	Number	Percent
Hypertension	3,667,192	42.3%
Rheumatic disease	32,448	0.4%
Chronic kidney disease	846,294	9.8%
Seizure disorder	688,348	7.9%
Antidementia treatment	289,501	3.3%
Dementia Diagnosis	718,666	8.3%
Parkinsons disease	178,588	2.1%
COPD	1,275,084	14.7%
Malignancy	233,224	2.7%
Asthma	690,275	8.0%
Hyperlipidemia	3,050,508	35.2%
Depression	2,131,976	24.6%
Schizophrenia	6,918,997	79.9%
Bipolar disorder	2,116,215	24.4%
ACE inhibitor use	1,650,945	19.1%
ARB use	455,630	5.3%
Beta-blocker use	1,774,048	20.5%
Oral anticoagulant use	194,601	2.2%
Antiplatelet agent use	161,466	1.9%
Opioid use	1,274,744	14.7%
Statin use	2,491,435	28.8%
Wheelchair or walker use	60,407	0.7%
Anti-arrhythmic use	31,365	0.4%
Antidiabetic use	1,768,389	20.4%
Calcium channel blocker use	1,104,108	12.7%
Diuretic use	1,458,669	16.8%
Antidepressant use	4,245,298	49.0%
Gastric acid suppressant use	2,399,075	27.7%
NSAIDs	1,645,913	19.0%
Benzodiazepine-Hypnotics use	2,235,244	25.8%
Chronic liver disease	371,432	4.3%
Pneumonia	289,176	3.3%
Cardiac arrhythmia	553,142	6.4%
Paliperidone palmitate	3,529,732	40.7%
Risperidone microspheres	2,723,366	31.4%
Haloperidol decanoate	2,763,758	31.9%
Injection in past 30 days	7,983,736	92.2%
Injection in past 60 days	8,248,488	95.2%
Injection in past 90 days	8,331,938	96.2%
Injection in past 183 days	8,414,381	97.1%

**Table 1b. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.5	15.7
Mean number of emergency room encounters	0.6	2.2
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	7.8	14.9

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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



**Table 1c. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Institutional Stays Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	98,433	N/A
Episodes	116,698	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.0	16.2
Age	Number	Percent
18-64 years	94,056	80.6%
≥ 65 years	22,642	19.4%
Sex		
Female	43,978	44.7%
Male	54,455	55.3%
Race <sup>2</sup>		
American Indian or Alaska Native	918	0.9%
Asian	1,939	2.0%
Black or African American	28,039	28.5%
Unknown	7,113	7.2%
White	60,424	61.4%
Hispanic origin		
Yes	4,595	4.7%
No	91,320	92.8%
Unknown	2,518	2.6%
Year		
2010	5,126	4.4%
2011	11,113	9.5%
2012	11,869	10.2%
2013	12,190	10.4%
2014	11,142	9.5%
2015	10,557	9.0%
2016	10,582	9.1%
2017	10,269	8.8%
2018	10,005	8.6%
2019	9,220	7.9%
2020	7,649	6.6%
2021	6,976	6.0%
Health Characteristics		
Substance abuse	48,273	41.4%
Atrial fibrillation/flutter	4,790	4.1%
Ischemic heart disease	15,893	13.6%
Heart failure	9,700	8.3%
Stroke	6,063	5.2%
Diabetes	34,894	29.9%

**Table 1c. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	Institutional Stays Among LAIA Users	
	Number	Percent
Hypertension	68,432	58.6%
Rheumatic disease	917	0.8%
Chronic kidney disease	18,977	16.3%
Seizure disorder	17,333	14.9%
Antidementia treatment	7,847	6.7%
Dementia Diagnosis	24,237	20.8%
Parkinsons disease	3,832	3.3%
COPD	24,662	21.1%
Malignancy	4,929	4.2%
Asthma	18,352	15.7%
Hyperlipidemia	46,647	40.0%
Depression	64,028	54.9%
Schizophrenia	101,188	86.7%
Bipolar disorder	62,553	53.6%
ACE inhibitor use	22,888	19.6%
ARB use	5,954	5.1%
Beta-blocker use	26,910	23.1%
Oral anticoagulant use	3,671	3.1%
Antiplatelet agent use	3,119	2.7%
Opioid use	21,815	18.7%
Statin use	27,626	23.7%
Wheelchair or walker use	917	0.8%
Anti-arrhythmic use	721	0.6%
Antidiabetic use	21,516	18.4%
Calcium channel blocker use	17,261	14.8%
Diuretic use	20,715	17.8%
Antidepressant use	66,590	57.1%
Gastric acid suppressant use	32,764	28.1%
NSAIDs	23,505	20.1%
Benzodiazepine-Hypnotics use	40,782	34.9%
Chronic liver disease	8,307	7.1%
Pneumonia	8,852	7.6%
Cardiac arrhythmia	22,460	19.2%
Paliperidone palmitate	51,200	43.9%
Risperidone microspheres	26,473	22.7%
Haloperidol decanoate	39,158	33.6%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1c. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Institutional Stays Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	19.8	20.8
Mean number of emergency room encounters	2.1	3.7
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	1.8	1.2
Mean number of other ambulatory encounters	24.3	24.8

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1d. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Institutional Stays Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	148,916	N/A
Episodes	1,251,018	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.4	15.4
Age	Number	Percent
18-64 years	1,015,623	81.2%
≥ 65 years	235,395	18.8%
Sex		
Female	64,264	43.2%
Male	84,652	56.8%
Race <sup>2</sup>		
American Indian or Alaska Native	1,389	0.9%
Asian	2,886	1.9%
Black or African American	42,567	28.6%
Unknown	11,130	7.5%
White	90,944	61.1%
Hispanic origin		
Yes	7,141	4.8%
No	137,786	92.5%
Unknown	3,989	2.7%
Year		
2010	49,854	4.0%
2011	109,605	8.8%
2012	119,238	9.5%
2013	125,116	10.0%
2014	120,444	9.6%
2015	111,746	8.9%
2016	112,265	9.0%
2017	110,922	8.9%
2018	108,663	8.7%
2019	103,892	8.3%
2020	93,425	7.5%
2021	85,848	6.9%
Health Characteristics		
Substance abuse	466,965	37.3%
Atrial fibrillation/flutter	49,015	3.9%
Ischemic heart disease	160,572	12.8%
Heart failure	109,468	8.8%
Stroke	59,724	4.8%

**Table 1d. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Institutional Stays Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Diabetes	412,301	33.0%
Hypertension	744,540	59.5%
Rheumatic disease	9,608	0.8%
Chronic kidney disease	206,414	16.5%
Seizure disorder	190,277	15.2%
Antidementia treatment	69,152	5.5%
Dementia Diagnosis	231,352	18.5%
Parkinsons disease	49,213	3.9%
COPD	297,478	23.8%
Malignancy	51,465	4.1%
Asthma	197,724	15.8%
Hyperlipidemia	542,849	43.4%
Depression	631,692	50.5%
Schizophrenia	1,139,965	91.1%
Bipolar disorder	598,209	47.8%
ACE inhibitor use	261,165	20.9%
ARB use	64,127	5.1%
Beta-blocker use	314,986	25.2%
Oral anticoagulant use	45,242	3.6%
Antiplatelet agent use	32,496	2.6%
Opioid use	233,321	18.7%
Statin use	341,597	27.3%
Wheelchair or walker use	14,612	1.2%
Anti-arrhythmic use	7,470	0.6%
Antidiabetic use	270,316	21.6%
Calcium channel blocker use	189,781	15.2%
Diuretic use	242,010	19.3%
Antidepressant use	741,844	59.3%
Gastric acid suppressant use	401,819	32.1%
NSAIDs	281,373	22.5%
Benzodiazepine-Hypnotics use	449,443	35.9%
Chronic liver disease	88,270	7.1%
Pneumonia	108,868	8.7%
Cardiac arrhythmia	216,804	17.3%
Paliperidone palmitate	556,731	44.5%
Risperidone microspheres	391,366	31.3%
Haloperidol decanoate	408,466	32.7%
Injection in past 30 days	1,029,115	82.3%
Injection in past 60 days	1,080,342	86.4%

**Table 1d. Characteristics of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Institutional Stays Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 90 days	1,100,643	88.0%
Injection in past 183 days	1,126,379	90.0%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	20.3	21.1
Mean number of emergency room encounters	1.7	3.6
Mean number of inpatient hospital encounters	0.4	0.9
Mean number of non-acute institutional encounters	1.4	1.1
Mean number of other ambulatory encounters	21.0	21.7

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1e. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA with Institutional Stays 60 Days Prior		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	80,581	N/A
Episodes	93,287	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	49.6	16.0
Age	Number	Percent
18-64 years	76,252	81.7%
≥ 65 years	17,035	18.3%
Sex		
Female	35,770	44.4%
Male	44,811	55.6%
Race <sup>2</sup>		
American Indian or Alaska Native	730	0.9%
Asian	1,608	2.0%
Black or African American	22,961	28.5%
Unknown	5,894	7.3%
White	49,388	61.3%
Hispanic origin		
Yes	3,812	4.7%
No	74,687	92.7%
Unknown	2,082	2.6%
Year		
2010	3,972	4.3%
2011	8,719	9.3%
2012	9,477	10.2%
2013	9,793	10.5%
2014	8,905	9.5%
2015	8,479	9.1%
2016	8,574	9.2%
2017	8,323	8.9%
2018	8,054	8.6%
2019	7,461	8.0%
2020	6,134	6.6%
2021	5,396	5.8%
Health Characteristics		
Substance abuse	39,269	42.1%
Atrial fibrillation/flutter	3,464	3.7%
Ischemic heart disease	12,116	13.0%
Heart failure	7,165	7.7%
Stroke	4,333	4.6%
Diabetes	27,171	29.1%



**Table 1e. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA with Institutional Stays 60 Days Prior	
	Number	Percent
Hypertension	53,994	57.9%
Rheumatic disease	715	0.8%
Chronic kidney disease	14,628	15.7%
Seizure disorder	13,262	14.2%
Antidementia treatment	5,803	6.2%
Dementia Diagnosis	18,260	19.6%
Parkinsons disease	2,833	3.0%
COPD	19,166	20.5%
Malignancy	3,859	4.1%
Asthma	14,772	15.8%
Hyperlipidemia	37,057	39.7%
Depression	50,867	54.5%
Schizophrenia	81,537	87.4%
Bipolar disorder	50,471	54.1%
ACE inhibitor use	18,211	19.5%
ARB use	4,697	5.0%
Beta-blocker use	21,103	22.6%
Oral anticoagulant use	2,652	2.8%
Antiplatelet agent use	2,276	2.4%
Opioid use	16,981	18.2%
Statin use	21,750	23.3%
Wheelchair or walker use	540	0.6%
Anti-arrhythmic use	516	0.6%
Antidiabetic use	16,809	18.0%
Calcium channel blocker use	13,521	14.5%
Diuretic use	16,108	17.3%
Antidepressant use	52,908	56.7%
Gastric acid suppressant use	25,673	27.5%
NSAIDs	18,679	20.0%
Benzodiazepine-Hypnotics use	32,526	34.9%
Chronic liver disease	6,540	7.0%
Pneumonia	6,413	6.9%
Cardiac arrhythmia	18,107	19.4%
Paliperidone palmitate	41,660	44.7%
Risperidone microspheres	21,023	22.5%
Haloperidol decanoate	30,711	32.9%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1e. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA with Institutional Stays 60 Days Prior		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	20.1	20.9
Mean number of emergency room encounters	2.1	3.6
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	1.9	1.3
Mean number of other ambulatory encounters	24.1	24.7

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1f. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA with Institutional Stays 60 Days Prior with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	130,674	N/A
Episodes	586,415	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.6	15.5
Age	Number	Percent
18-64 years	473,595	80.8%
≥ 65 years	112,820	19.2%
Sex		
Female	55,937	42.8%
Male	74,737	57.2%
Race <sup>2</sup>		
American Indian or Alaska Native	1,229	0.9%
Asian	2,543	1.9%
Black or African American	37,276	28.5%
Unknown	9,806	7.5%
White	79,820	61.1%
Hispanic origin		
Yes	6,336	4.8%
No	120,868	92.5%
Unknown	3,470	2.7%
Year		
2010	23,201	4.0%
2011	51,596	8.8%
2012	56,452	9.6%
2013	59,346	10.1%
2014	56,975	9.7%
2015	52,917	9.0%
2016	53,031	9.0%
2017	52,672	9.0%
2018	50,768	8.7%
2019	48,784	8.3%
2020	43,178	7.4%
2021	37,495	6.4%
Health Characteristics		
Substance abuse	229,163	39.1%
Atrial fibrillation/flutter	24,065	4.1%
Ischemic heart disease	79,537	13.6%
Heart failure	53,480	9.1%
Stroke	29,218	5.0%

**Table 1f. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA with Institutional Stays 60 Days Prior with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Diabetes	196,161	33.5%
Hypertension	357,417	60.9%
Rheumatic disease	4,892	0.8%
Chronic kidney disease	100,990	17.2%
Seizure disorder	94,344	16.1%
Antidementia treatment	33,450	5.7%
Dementia Diagnosis	114,739	19.6%
Parkinsons disease	24,195	4.1%
COPD	144,556	24.7%
Malignancy	25,991	4.4%
Asthma	97,764	16.7%
Hyperlipidemia	257,587	43.9%
Depression	308,225	52.6%
Schizophrenia	533,517	91.0%
Bipolar disorder	292,456	49.9%
ACE inhibitor use	123,785	21.1%
ARB use	30,013	5.1%
Beta-blocker use	150,099	25.6%
Oral anticoagulant use	21,365	3.6%
Antiplatelet agent use	15,491	2.6%
Opioid use	109,630	18.7%
Statin use	160,849	27.4%
Wheelchair or walker use	6,768	1.2%
Anti-arrhythmic use	3,523	0.6%
Antidiabetic use	127,554	21.8%
Calcium channel blocker use	89,968	15.3%
Diuretic use	114,949	19.6%
Antidepressant use	349,987	59.7%
Gastric acid suppressant use	190,983	32.6%
NSAIDs	133,098	22.7%
Benzodiazepine-Hypnotics use	217,776	37.1%
Chronic liver disease	43,646	7.4%
Pneumonia	53,560	9.1%
Cardiac arrhythmia	111,918	19.1%
Paliperidone palmitate	256,826	43.8%
Risperidone microspheres	186,157	31.7%
Haloperidol decanoate	196,101	33.4%
Injection in past 30 days	431,675	73.6%
Injection in past 60 days	459,290	78.3%

**Table 1f. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA with Institutional Stays 60 Days Prior with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 90 days	471,173	80.3%
Injection in past 183 days	487,154	83.1%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	21.1	21.9
Mean number of emergency room encounters	2.0	3.9
Mean number of inpatient hospital encounters	0.5	1.0
Mean number of non-acute institutional encounters	1.7	1.3
Mean number of other ambulatory encounters	23.2	23.3

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1g. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Between Institutional Stay Admit and Discharge Dates		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	23,992	N/A
Episodes	25,607	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	51.8	16.6
Age	Number	Percent
18-64 years	19,733	77.1%
≥ 65 years	5,874	22.9%
Sex		
Female	10,751	44.8%
Male	13,241	55.2%
Race <sup>2</sup>		
American Indian or Alaska Native	223	0.9%
Asian	490	2.0%
Black or African American	6,512	27.1%
Unknown	1,588	6.6%
White	15,179	63.3%
Hispanic origin		
Yes	1,045	4.4%
No	22,404	93.4%
Unknown	543	2.3%
Year		
2010	1,078	4.2%
2011	2,377	9.3%
2012	2,601	10.2%
2013	2,740	10.7%
2014	2,644	10.3%
2015	2,369	9.3%
2016	2,315	9.0%
2017	2,291	8.9%
2018	2,211	8.6%
2019	1,949	7.6%
2020	1,619	6.3%
2021	1,413	5.5%
Health Characteristics		
Substance abuse	9,846	38.5%
Atrial fibrillation/flutter	1,127	4.4%
Ischemic heart disease	3,796	14.8%
Heart failure	2,301	9.0%
Stroke	1,326	5.2%

**Table 1g. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Between Institutional Stay Admit and Discharge Dates		
Patient Characteristics <sup>1</sup>	Number	Percent
Diabetes	7,942	31.0%
Hypertension	15,545	60.7%
Rheumatic disease	218	0.9%
Chronic kidney disease	4,385	17.1%
Seizure disorder	3,905	15.2%
Antidementia treatment	2,103	8.2%
Dementia Diagnosis	6,089	23.8%
Parkinsons disease	974	3.8%
COPD	5,628	22.0%
Malignancy	1,077	4.2%
Asthma	3,905	15.2%
Hyperlipidemia	10,689	41.7%
Depression	13,678	53.4%
Schizophrenia	21,951	85.7%
Bipolar disorder	13,361	52.2%
ACE inhibitor use	5,189	20.3%
ARB use	1,362	5.3%
Beta-blocker use	6,304	24.6%
Oral anticoagulant use	849	3.3%
Antiplatelet agent use	739	2.9%
Opioid use	4,630	18.1%
Statin use	6,587	25.7%
Wheelchair or walker use	213	0.8%
Anti-arrhythmic use	159	0.6%
Antidiabetic use	4,891	19.1%
Calcium channel blocker use	3,952	15.4%
Diuretic use	4,801	18.7%
Antidepressant use	14,373	56.1%
Gastric acid suppressant use	7,706	30.1%
NSAIDs	5,186	20.3%
Benzodiazepine-Hypnotics use	9,465	37.0%
Chronic liver disease	1,795	7.0%
Pneumonia	1,977	7.7%
Cardiac arrhythmia	4,949	19.3%
Paliperidone palmitate	10,385	40.6%
Risperidone microspheres	6,654	26.0%
Haloperidol decanoate	8,601	33.6%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%



**Table 1g. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Between Institutional Stay Admit and Discharge Dates		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	20.1	22.5
Mean number of emergency room encounters	1.9	3.4
Mean number of inpatient hospital encounters	0.5	0.9
Mean number of non-acute institutional encounters	1.9	1.4
Mean number of other ambulatory encounters	27.2	27.3

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1h. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Between Institutional Stay Admit and Discharge Dates with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	59,281	N/A
Episodes	155,508	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	54.8	16.3
Age	Number	Percent
18-64 years	110,704	71.2%
≥ 65 years	44,804	28.8%
Sex		
Female	25,315	42.7%
Male	33,966	57.3%
Race <sup>2</sup>		
American Indian or Alaska Native	539	0.9%
Asian	1,160	2.0%
Black or African American	16,475	27.8%
Unknown	4,139	7.0%
White	36,968	62.4%
Hispanic origin		
Yes	2,759	4.7%
No	55,142	93.0%
Unknown	1,380	2.3%
Year		
2010	5,576	3.6%
2011	13,787	8.9%
2012	15,224	9.8%
2013	16,340	10.5%
2014	15,674	10.1%
2015	14,192	9.1%
2016	14,416	9.3%
2017	14,465	9.3%
2018	13,653	8.8%
2019	12,686	8.2%
2020	10,901	7.0%
2021	8,594	5.5%
Health Characteristics		
Substance abuse	47,433	30.5%
Atrial fibrillation/flutter	8,695	5.6%
Ischemic heart disease	24,031	15.5%
Heart failure	18,007	11.6%
Stroke	9,485	6.1%

**Table 1h. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA Between Institutional Stay Admit and Discharge Dates with No Washout	
	Number	Percent
Diabetes	56,125	36.1%
Hypertension	98,229	63.2%
Rheumatic disease	1,440	0.9%
Chronic kidney disease	29,780	19.2%
Seizure disorder	27,011	17.4%
Antidementia treatment	13,206	8.5%
Dementia Diagnosis	41,721	26.8%
Parkinsons disease	8,622	5.5%
COPD	40,449	26.0%
Malignancy	7,152	4.6%
Asthma	21,537	13.8%
Hyperlipidemia	68,549	44.1%
Depression	74,158	47.7%
Schizophrenia	134,639	86.6%
Bipolar disorder	68,937	44.3%
ACE inhibitor use	33,837	21.8%
ARB use	7,976	5.1%
Beta-blocker use	43,485	28.0%
Oral anticoagulant use	7,534	4.8%
Antiplatelet agent use	5,307	3.4%
Opioid use	29,471	19.0%
Statin use	46,861	30.1%
Wheelchair or walker use	3,563	2.3%
Anti-arrhythmic use	1,177	0.8%
Antidiabetic use	36,474	23.5%
Calcium channel blocker use	25,375	16.3%
Diuretic use	35,176	22.6%
Antidepressant use	87,819	56.5%
Gastric acid suppressant use	53,543	34.4%
NSAIDs	33,321	21.4%
Benzodiazepine-Hypnotics use	59,961	38.6%
Chronic liver disease	10,925	7.0%
Pneumonia	16,893	10.9%
Cardiac arrhythmia	27,807	17.9%
Paliperidone palmitate	57,556	37.0%
Risperidone microspheres	56,228	36.2%
Haloperidol decanoate	53,582	34.5%
Injection in past 30 days	114,562	73.7%
Injection in past 60 days	120,797	77.7%

**Table 1h. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Between Institutional Stay Admit and Discharge Dates with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 90 days	123,870	79.7%
Injection in past 183 days	128,368	82.5%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	18.7	22.3
Mean number of emergency room encounters	1.5	3.3
Mean number of inpatient hospital encounters	0.5	0.9
Mean number of non-acute institutional encounters	1.6	1.5
Mean number of other ambulatory encounters	25.7	25.9

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1i. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Institutional Stays		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	97,184	N/A
Episodes	113,680	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.1	16.3
Age	Number	Percent
18-64 years	93,192	82.0%
≥ 65 years	20,488	18.0%
Sex		
Female	40,311	41.5%
Male	56,873	58.5%
Race <sup>2</sup>		
American Indian or Alaska Native	1,140	1.2%
Asian	2,049	2.1%
Black or African American	29,415	30.3%
Unknown	7,323	7.5%
White	57,257	58.9%
Hispanic origin		
Yes	5,030	5.2%
No	89,861	92.5%
Unknown	2,293	2.4%
Year		
2010	6,242	5.5%
2011	12,686	11.2%
2012	12,270	10.8%
2013	11,713	10.3%
2014	10,488	9.2%
2015	10,210	9.0%
2016	9,842	8.7%
2017	9,634	8.5%
2018	9,087	8.0%
2019	8,298	7.3%
2020	6,533	5.7%
2021	6,677	5.9%
Health Characteristics		
Substance abuse	22,037	19.4%
Atrial fibrillation/flutter	2,699	2.4%
Ischemic heart disease	8,128	7.1%
Heart failure	5,305	4.7%
Stroke	3,161	2.8%
Diabetes	28,009	24.6%

**Table 1i. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA Users without Institutional Stays	
	Number	Percent
Hypertension	47,674	41.9%
Rheumatic disease	468	0.4%
Chronic kidney disease	10,604	9.3%
Seizure disorder	10,066	8.9%
Antidementia treatment	6,102	5.4%
Dementia Diagnosis	13,278	11.7%
Parkinsons disease	2,088	1.8%
COPD	15,116	13.3%
Malignancy	3,215	2.8%
Asthma	9,827	8.6%
Hyperlipidemia	34,937	30.7%
Depression	35,020	30.8%
Schizophrenia	78,726	69.3%
Bipolar disorder	33,120	29.1%
ACE inhibitor use	19,729	17.4%
ARB use	5,749	5.1%
Beta-blocker use	21,523	18.9%
Oral anticoagulant use	2,703	2.4%
Antiplatelet agent use	2,651	2.3%
Opioid use	21,321	18.8%
Statin use	26,741	23.5%
Wheelchair or walker use	1,025	0.9%
Anti-arrhythmic use	549	0.5%
Antidiabetic use	19,972	17.6%
Calcium channel blocker use	13,804	12.1%
Diuretic use	18,819	16.6%
Antidepressant use	57,300	50.4%
Gastric acid suppressant use	29,029	25.5%
NSAIDs	22,023	19.4%
Benzodiazepine-Hypnotics use	30,832	27.1%
Chronic liver disease	5,163	4.5%
Pneumonia	3,792	3.3%
Cardiac arrhythmia	7,940	7.0%
Paliperidone palmitate	49,139	43.2%
Risperidone microspheres	23,191	20.4%
Haloperidol decanoate	41,440	36.5%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1i. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Institutional Stays		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	10.9	15.4
Mean number of emergency room encounters	1.0	2.6
Mean number of inpatient hospital encounters	0.3	0.8
Mean number of non-acute institutional encounters	0.0	NaN
Mean number of other ambulatory encounters	8.5	15.9

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1j. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Institutional Stays with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	223,467	N/A
Episodes	7,412,437	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.5	14.1
Age	Number	Percent
18-64 years	6,271,535	84.6%
≥ 65 years	1,140,902	15.4%
Sex		
Female	90,630	40.6%
Male	132,837	59.4%
Race <sup>2</sup>		
American Indian or Alaska Native	2,289	1.0%
Asian	4,850	2.2%
Black or African American	67,065	30.0%
Unknown	17,880	8.0%
White	131,383	58.8%
Hispanic origin		
Yes	11,343	5.1%
No	205,587	92.0%
Unknown	6,537	2.9%
Year		
2010	256,123	3.5%
2011	568,272	7.7%
2012	628,330	8.5%
2013	690,350	9.3%
2014	704,671	9.5%
2015	688,949	9.3%
2016	685,922	9.3%
2017	677,071	9.1%
2018	670,877	9.1%
2019	656,685	8.9%
2020	617,300	8.3%
2021	567,887	7.7%
Health Characteristics		
Substance abuse	991,689	13.4%
Atrial fibrillation/flutter	112,370	1.5%
Ischemic heart disease	377,170	5.1%
Heart failure	252,288	3.4%
Stroke	120,270	1.6%



**Table 1j. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Institutional Stays with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Diabetes	1,922,442	25.9%
Hypertension	2,922,652	39.4%
Rheumatic disease	22,840	0.3%
Chronic kidney disease	639,880	8.6%
Seizure disorder	498,071	6.7%
Antidementia treatment	220,349	3.0%
Dementia Diagnosis	487,314	6.6%
Parkinsons disease	129,375	1.7%
COPD	977,606	13.2%
Malignancy	181,759	2.5%
Asthma	492,551	6.6%
Hyperlipidemia	2,507,659	33.8%
Depression	1,500,284	20.2%
Schizophrenia	5,779,032	78.0%
Bipolar disorder	1,518,006	20.5%
ACE inhibitor use	1,389,780	18.7%
ARB use	391,503	5.3%
Beta-blocker use	1,459,062	19.7%
Oral anticoagulant use	149,359	2.0%
Antiplatelet agent use	128,970	1.7%
Opioid use	1,041,423	14.0%
Statin use	2,149,838	29.0%
Wheelchair or walker use	45,795	0.6%
Anti-arrhythmic use	23,895	0.3%
Antidiabetic use	1,498,073	20.2%
Calcium channel blocker use	914,327	12.3%
Diuretic use	1,216,659	16.4%
Antidepressant use	3,503,454	47.3%
Gastric acid suppressant use	1,997,256	26.9%
NSAIDs	1,364,540	18.4%
Benzodiazepine-Hypnotics use	1,785,801	24.1%
Chronic liver disease	283,162	3.8%
Pneumonia	180,308	2.4%
Cardiac arrhythmia	336,338	4.5%
Paliperidone palmitate	2,973,001	40.1%
Risperidone microspheres	2,332,000	31.5%
Haloperidol decanoate	2,355,292	31.8%
Injection in past 30 days	6,954,621	93.8%
Injection in past 60 days	7,168,146	96.7%

**Table 1j. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Institutional Stays with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 90 days	7,231,295	97.6%
Injection in past 183 days	7,288,002	98.3%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	11.2	14.2
Mean number of emergency room encounters	0.5	1.8
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	NaN
Mean number of other ambulatory encounters	5.5	12.1

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1k. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

<b>Dementia Among LAIA Users</b>		
<b>Patient Characteristics<sup>1</sup></b>	<b>Number</b>	<b>Percent</b>
Unique patients	11,426	N/A
Episodes	11,912	100.0%
<b>Demographic Characteristics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Age (years)	76.1	10.7
	<b>Number</b>	<b>Percent</b>
Age		
18-64 years	1,717	14.4%
≥ 65 years	10,195	85.6%
Sex		
Female	7,147	62.6%
Male	4,279	37.4%
Race <sup>2</sup>		
American Indian or Alaska Native	62	0.5%
Asian	107	0.9%
Black or African American	2,277	19.9%
Unknown	466	4.1%
White	8,514	74.5%
Hispanic origin		
Yes	346	3.0%
No	10,960	95.9%
Unknown	120	1.1%
Year		
2010	608	5.1%
2011	1,305	11.0%
2012	1,292	10.8%
2013	1,297	10.9%
2014	1,167	9.8%
2015	1,102	9.3%
2016	1,070	9.0%
2017	1,027	8.6%
2018	946	7.9%
2019	844	7.1%
2020	647	5.4%
2021	607	5.1%
<b>Health Characteristics</b>		
Substance abuse	1,193	10.0%
Atrial fibrillation/flutter	1,652	13.9%
Ischemic heart disease	3,730	31.3%
Heart failure	2,630	22.1%
Stroke	1,876	15.7%
Diabetes	5,117	43.0%

**Table 1k. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	Dementia Among LAIA Users	
	Number	Percent
Hypertension	10,137	85.1%
Rheumatic disease	180	1.5%
Chronic kidney disease	3,523	29.6%
Seizure disorder	2,197	18.4%
Antidementia treatment	11,912	100.0%
Dementia Diagnosis	11,912	100.0%
Parkinsons disease	1,243	10.4%
COPD	3,294	27.7%
Malignancy	636	5.3%
Asthma	812	6.8%
Hyperlipidemia	6,579	55.2%
Depression	7,268	61.0%
Schizophrenia	4,901	41.1%
Bipolar disorder	3,878	32.6%
ACE inhibitor use	3,667	30.8%
ARB use	1,274	10.7%
Beta-blocker use	4,570	38.4%
Oral anticoagulant use	1,050	8.8%
Antiplatelet agent use	1,222	10.3%
Opioid use	3,339	28.0%
Statin use	5,003	42.0%
Wheelchair or walker use	561	4.7%
Anti-arrhythmic use	257	2.2%
Antidiabetic use	3,051	25.6%
Calcium channel blocker use	3,461	29.1%
Diuretic use	4,313	36.2%
Antidepressant use	8,875	74.5%
Gastric acid suppressant use	4,815	40.4%
NSAIDs	1,936	16.3%
Benzodiazepine-Hypnotics use	5,009	42.1%
Chronic liver disease	631	5.3%
Pneumonia	1,676	14.1%
Cardiac arrhythmia	1,954	16.4%
Paliperidone palmitate	1,857	15.6%
Risperidone microspheres	5,815	48.8%
Haloperidol decanoate	4,249	35.7%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1k. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Dementia Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.5	15.8
Mean number of emergency room encounters	1.0	1.6
Mean number of inpatient hospital encounters	0.5	0.9
Mean number of non-acute institutional encounters	1.2	1.5
Mean number of other ambulatory encounters	32.7	25.4

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1I. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Dementia Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	17,603	N/A
Episodes	197,411	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	72.8	10.9
Age	Number	Percent
18-64 years	44,410	22.5%
≥ 65 years	153,001	77.5%
Sex		
Female	10,767	61.2%
Male	6,836	38.8%
Race <sup>2</sup>		
American Indian or Alaska Native	105	0.6%
Asian	183	1.0%
Black or African American	3,918	22.3%
Unknown	732	4.2%
White	12,665	71.9%
Hispanic origin		
Yes	532	3.0%
No	16,871	95.8%
Unknown	200	1.1%
Year		
2010	8,129	4.1%
2011	17,834	9.0%
2012	19,088	9.7%
2013	19,867	10.1%
2014	19,320	9.8%
2015	18,516	9.4%
2016	17,936	9.1%
2017	17,530	8.9%
2018	16,929	8.6%
2019	16,423	8.3%
2020	13,802	7.0%
2021	12,037	6.1%
Health Characteristics		
Substance abuse	14,960	7.6%
Atrial fibrillation/flutter	17,712	9.0%
Ischemic heart disease	41,366	21.0%
Heart failure	33,114	16.8%
Stroke	20,749	10.5%
Diabetes	88,933	45.0%

**Table 1I. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

<b>Dementia Among LAIA Users with No Washout</b>		
<b>Patient Characteristics<sup>1</sup></b>	<b>Number</b>	<b>Percent</b>
Hypertension	155,098	78.6%
Rheumatic disease	1,765	0.9%
Chronic kidney disease	44,942	22.8%
Seizure disorder	35,771	18.1%
Antidementia treatment	197,411	100.0%
Dementia Diagnosis	197,411	100.0%
Parkinsons disease	24,150	12.2%
COPD	52,564	26.6%
Malignancy	9,448	4.8%
Asthma	11,119	5.6%
Hyperlipidemia	99,286	50.3%
Depression	97,838	49.6%
Schizophrenia	124,836	63.2%
Bipolar disorder	56,925	28.8%
ACE inhibitor use	52,809	26.8%
ARB use	17,603	8.9%
Beta-blocker use	66,277	33.6%
Oral anticoagulant use	15,051	7.6%
Antiplatelet agent use	15,120	7.7%
Opioid use	48,479	24.6%
Statin use	81,971	41.5%
Wheelchair or walker use	11,289	5.7%
Anti-arrhythmic use	2,446	1.2%
Antidiabetic use	54,308	27.5%
Calcium channel blocker use	48,164	24.4%
Diuretic use	68,475	34.7%
Antidepressant use	135,637	68.7%
Gastric acid suppressant use	77,965	39.5%
NSAIDs	34,323	17.4%
Benzodiazepine-Hypnotics use	73,010	37.0%
Chronic liver disease	8,902	4.5%
Pneumonia	22,009	11.1%
Cardiac arrhythmia	21,516	10.9%
Paliperidone palmitate	39,999	20.3%
Risperidone microspheres	109,480	55.5%
Haloperidol decanoate	53,209	27.0%
Injection in past 30 days	173,469	87.9%
Injection in past 60 days	180,263	91.3%
Injection in past 90 days	182,740	92.6%
Injection in past 183 days	185,180	93.8%

**Table 1I. Characteristics of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

<b>Dementia Among LAIA Users with No Washout</b>		
<b>Patient Characteristics<sup>1</sup></b>	<b>Number</b>	<b>Percent</b>
<b>Health Service Utilization Intensity Metrics</b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean number of ambulatory encounters	10.2	14.5
Mean number of emergency room encounters	0.6	1.3
Mean number of inpatient hospital encounters	0.3	0.6
Mean number of non-acute institutional encounters	0.5	1.0
Mean number of other ambulatory encounters	26.8	24.3

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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



**Table 1m. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Dementia		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	170,562	N/A
Episodes	218,466	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	48.6	15.3
Age	Number	Percent
18-64 years	185,531	84.9%
≥ 65 years	32,935	15.1%
Sex		
Female	71,899	42.2%
Male	98,663	57.8%
Race <sup>2</sup>		
American Indian or Alaska Native	1,816	1.1%
Asian	3,572	2.1%
Black or African American	50,128	29.4%
Unknown	12,988	7.6%
White	102,058	59.8%
Hispanic origin		
Yes	8,596	5.0%
No	157,574	92.4%
Unknown	4,392	2.6%
Year		
2010	10,760	4.9%
2011	22,494	10.3%
2012	22,847	10.5%
2013	22,606	10.3%
2014	20,463	9.4%
2015	19,665	9.0%
2016	19,354	8.9%
2017	18,876	8.6%
2018	18,146	8.3%
2019	16,674	7.6%
2020	13,535	6.2%
2021	13,046	6.0%
Health Characteristics		
Substance abuse	69,117	31.6%
Atrial fibrillation/flutter	5,837	2.7%
Ischemic heart disease	20,291	9.3%
Heart failure	12,375	5.7%
Stroke	7,348	3.4%
Diabetes	57,786	26.5%

**Table 1m. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	LAIA Users without Dementia	
	Number	Percent
Hypertension	105,969	48.5%
Rheumatic disease	1,205	0.6%
Chronic kidney disease	26,058	11.9%
Seizure disorder	25,202	11.5%
Antidementia treatment	2,037	0.9%
Dementia Diagnosis	25,603	11.7%
Parkinsons disease	4,677	2.1%
COPD	36,484	16.7%
Malignancy	7,508	3.4%
Asthma	27,367	12.5%
Hyperlipidemia	75,005	34.3%
Depression	91,780	42.0%
Schizophrenia	175,013	80.1%
Bipolar disorder	91,795	42.0%
ACE inhibitor use	38,950	17.8%
ARB use	10,429	4.8%
Beta-blocker use	43,863	20.1%
Oral anticoagulant use	5,324	2.4%
Antiplatelet agent use	4,548	2.1%
Opioid use	39,797	18.2%
Statin use	49,364	22.6%
Wheelchair or walker use	1,381	0.6%
Anti-arrhythmic use	1,013	0.5%
Antidiabetic use	38,437	17.6%
Calcium channel blocker use	27,604	12.6%
Diuretic use	35,221	16.1%
Antidepressant use	115,015	52.6%
Gastric acid suppressant use	56,978	26.1%
NSAIDs	43,592	20.0%
Benzodiazepine-Hypnotics use	66,605	30.5%
Chronic liver disease	12,839	5.9%
Pneumonia	10,968	5.0%
Cardiac arrhythmia	28,446	13.0%
Paliperidone palmitate	98,482	45.1%
Risperidone microspheres	43,849	20.1%
Haloperidol decanoate	76,349	34.9%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%

**Table 1m. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

	LAIA Users without Dementia	
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	15.5	19.0
Mean number of emergency room encounters	1.5	3.3
Mean number of inpatient hospital encounters	0.4	0.9
Mean number of non-acute institutional encounters	0.9	1.2
Mean number of other ambulatory encounters	15.6	21.8

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1n. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Dementia with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	255,008	N/A
Episodes	8,466,044	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	50.0	13.9
Age	Number	Percent
18-64 years	7,242,748	85.6%
≥ 65 years	1,223,296	14.4%
Sex		
Female	104,293	40.9%
Male	150,715	59.1%
Race <sup>2</sup>		
American Indian or Alaska Native	2,577	1.0%
Asian	5,458	2.1%
Black or African American	75,979	29.8%
Unknown	20,610	8.1%
White	150,384	59.0%
Hispanic origin		
Yes	13,006	5.1%
No	234,398	91.9%
Unknown	7,604	3.0%
Year		
2010	297,848	3.5%
2011	660,043	7.8%
2012	728,480	8.6%
2013	795,599	9.4%
2014	805,795	9.5%
2015	782,179	9.2%
2016	780,251	9.2%
2017	770,463	9.1%
2018	762,611	9.0%
2019	744,154	8.8%
2020	696,923	8.2%
2021	641,698	7.6%
Health Characteristics		
Substance abuse	1,443,694	17.1%
Atrial fibrillation/flutter	143,673	1.7%
Ischemic heart disease	496,376	5.9%
Heart failure	328,642	3.9%
Stroke	159,245	1.9%
Diabetes	2,245,810	26.5%

**Table 1n. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Dementia with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Hypertension	3,512,094	41.5%
Rheumatic disease	30,683	0.4%
Chronic kidney disease	801,352	9.5%
Seizure disorder	652,577	7.7%
Antidementia treatment	92,090	1.1%
Dementia Diagnosis	521,255	6.2%
Parkinsons disease	154,438	1.8%
COPD	1,222,520	14.4%
Malignancy	223,776	2.6%
Asthma	679,156	8.0%
Hyperlipidemia	2,951,222	34.9%
Depression	2,034,138	24.0%
Schizophrenia	6,794,161	80.3%
Bipolar disorder	2,059,290	24.3%
ACE inhibitor use	1,598,136	18.9%
ARB use	438,027	5.2%
Beta-blocker use	1,707,771	20.2%
Oral anticoagulant use	179,550	2.1%
Antiplatelet agent use	146,346	1.7%
Opioid use	1,226,265	14.5%
Statin use	2,409,464	28.5%
Wheelchair or walker use	49,118	0.6%
Anti-arrhythmic use	28,919	0.3%
Antidiabetic use	1,714,081	20.2%
Calcium channel blocker use	1,055,944	12.5%
Diuretic use	1,390,194	16.4%
Antidepressant use	4,109,661	48.5%
Gastric acid suppressant use	2,321,110	27.4%
NSAIDs	1,611,590	19.0%
Benzodiazepine-Hypnotics use	2,162,234	25.5%
Chronic liver disease	362,530	4.3%
Pneumonia	267,167	3.2%
Cardiac arrhythmia	531,626	6.3%
Paliperidone palmitate	3,489,733	41.2%
Risperidone microspheres	2,613,886	30.9%
Haloperidol decanoate	2,710,549	32.0%
Injection in past 30 days	7,810,267	92.3%
Injection in past 60 days	8,068,225	95.3%
Injection in past 90 days	8,149,198	96.3%
Injection in past 183 days	8,229,201	97.2%

**Table 1n. Characteristics of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

LAIA Users without Dementia with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	12.6	15.7
Mean number of emergency room encounters	0.6	2.2
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	7.3	14.3

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1o. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age 65 and Older Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	37,687	N/A
Episodes	43,130	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	75.1	8.1
	Number	Percent
Age		
≥ 65 years	43,130	100.0%
Sex		
Female	24,360	64.6%
Male	13,327	35.4%
Race <sup>2</sup>		
American Indian or Alaska Native	200	0.5%
Asian	499	1.3%
Black or African American	8,741	23.2%
Unknown	1,595	4.2%
White	26,652	70.7%
Hispanic origin		
Yes	1,053	2.8%
No	36,092	95.8%
Unknown	542	1.4%
Year		
2010	2,088	4.8%
2011	4,338	10.1%
2012	4,214	9.8%
2013	4,255	9.9%
2014	3,990	9.3%
2015	3,810	8.8%
2016	3,827	8.9%
2017	3,711	8.6%
2018	3,613	8.4%
2019	3,454	8.0%
2020	2,929	6.8%
2021	2,901	6.7%
Health Characteristics		
Substance abuse	4,471	10.4%
Atrial fibrillation/flutter	4,912	11.4%
Ischemic heart disease	11,468	26.6%
Heart failure	8,077	18.7%
Stroke	4,960	11.5%
Diabetes	17,959	41.6%
Hypertension	34,247	79.4%

**Table 1o. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age 65 and Older Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Rheumatic disease	576	1.3%
Chronic kidney disease	11,278	26.1%
Seizure disorder	5,884	13.6%
Antidementia treatment	11,088	25.7%
Dementia Diagnosis	24,932	57.8%
Parkinsons disease	3,520	8.2%
COPD	11,923	27.6%
Malignancy	2,785	6.5%
Asthma	3,326	7.7%
Hyperlipidemia	22,072	51.2%
Depression	21,017	48.7%
Schizophrenia	25,685	59.6%
Bipolar disorder	14,149	32.8%
ACE inhibitor use	12,238	28.4%
ARB use	4,553	10.6%
Beta-blocker use	14,816	34.4%
Oral anticoagulant use	3,171	7.4%
Antiplatelet agent use	3,271	7.6%
Opioid use	10,110	23.4%
Statin use	16,508	38.3%
Wheelchair or walker use	1,433	3.3%
Anti-arrhythmic use	723	1.7%
Antidiabetic use	10,705	24.8%
Calcium channel blocker use	11,785	27.3%
Diuretic use	14,121	32.7%
Antidepressant use	24,502	56.8%
Gastric acid suppressant use	15,306	35.5%
NSAIDs	7,021	16.3%
Benzodiazepine-Hypnotics use	14,440	33.5%
Chronic liver disease	2,267	5.3%
Pneumonia	5,085	11.8%
Cardiac arrhythmia	6,605	15.3%
Paliperidone palmitate	9,450	21.9%
Risperidone microspheres	16,081	37.3%
Haloperidol decanoate	17,624	40.9%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation



**Table 1o. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	Age 65 and Older Among LAIA Users	
	Number	Percent
Mean number of ambulatory encounters	12.9	16.9
Mean number of emergency room encounters	1.0	1.9
Mean number of inpatient hospital encounters	0.5	0.9
Mean number of non-acute institutional encounters	1.0	1.3
Mean number of other ambulatory encounters	26.8	26.1

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1p. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age 65 and Older Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	61,177	N/A
Episodes	1,376,297	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	72.8	6.7
Age	Number	Percent
≥ 65 years	1,376,297	100.0%
Sex		
Female	37,528	61.3%
Male	23,649	38.7%
Race <sup>2</sup>		
American Indian or Alaska Native	335	0.5%
Asian	911	1.5%
Black or African American	15,724	25.7%
Unknown	2,600	4.2%
White	41,607	68.0%
Hispanic origin		
Yes	1,679	2.7%
No	58,577	95.8%
Unknown	921	1.5%
Year		
2010	44,062	3.2%
2011	95,862	7.0%
2012	107,322	7.8%
2013	117,081	8.5%
2014	121,296	8.8%
2015	119,646	8.7%
2016	124,070	9.0%
2017	128,158	9.3%
2018	132,523	9.6%
2019	135,167	9.8%
2020	128,407	9.3%
2021	122,703	8.9%
Health Characteristics		
Substance abuse	85,777	6.2%
Atrial fibrillation/flutter	90,329	6.6%
Ischemic heart disease	221,424	16.1%
Heart failure	169,413	12.3%
Stroke	81,123	5.9%
Diabetes	548,542	39.9%

**Table 1p. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age 65 and Older Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Hypertension	926,073	67.3%
Rheumatic disease	10,519	0.8%
Chronic kidney disease	253,478	18.4%
Seizure disorder	142,110	10.3%
Antidementia treatment	193,549	14.1%
Dementia Diagnosis	469,758	34.1%
Parkinsons disease	101,339	7.4%
COPD	328,693	23.9%
Malignancy	76,990	5.6%
Asthma	72,631	5.3%
Hyperlipidemia	625,078	45.4%
Depression	416,557	30.3%
Schizophrenia	1,050,408	76.3%
Bipolar disorder	309,959	22.5%
ACE inhibitor use	361,736	26.3%
ARB use	126,036	9.2%
Beta-blocker use	412,758	30.0%
Oral anticoagulant use	75,822	5.5%
Antiplatelet agent use	72,695	5.3%
Opioid use	247,731	18.0%
Statin use	552,514	40.1%
Wheelchair or walker use	41,180	3.0%
Anti-arrhythmic use	12,833	0.9%
Antidiabetic use	350,741	25.5%
Calcium channel blocker use	329,019	23.9%
Diuretic use	403,846	29.3%
Antidepressant use	651,119	47.3%
Gastric acid suppressant use	445,248	32.4%
NSAIDs	229,687	16.7%
Benzodiazepine-Hypnotics use	367,475	26.7%
Chronic liver disease	54,530	4.0%
Pneumonia	100,645	7.3%
Cardiac arrhythmia	116,621	8.5%
Paliperidone palmitate	348,140	25.3%
Risperidone microspheres	585,910	42.6%
Haloperidol decanoate	481,129	35.0%
Injection in past 30 days	1,253,776	91.1%
Injection in past 60 days	1,300,208	94.5%
Injection in past 90 days	1,315,780	95.6%

**Table 1p. Characteristics of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age 65 and Older Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 183 days	1,331,082	96.7%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	10.4	14.3
Mean number of emergency room encounters	0.4	1.6
Mean number of inpatient hospital encounters	0.2	0.5
Mean number of non-acute institutional encounters	0.2	0.7
Mean number of other ambulatory encounters	16.0	21.1

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1q. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age Under 65 Among LAIA Users		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	144,842	N/A
Episodes	187,248	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	44.3	11.5
Age	Number	Percent
18-64 years	187,248	100.0%
Sex		
Female	54,859	37.9%
Male	89,983	62.1%
Race <sup>2</sup>		
American Indian or Alaska Native	1,679	1.2%
Asian	3,197	2.2%
Black or African American	43,896	30.3%
Unknown	11,869	8.2%
White	84,201	58.1%
Hispanic origin		
Yes	7,893	5.4%
No	132,973	91.8%
Unknown	3,976	2.7%
Year		
2010	9,280	5.0%
2011	19,461	10.4%
2012	19,925	10.6%
2013	19,648	10.5%
2014	17,640	9.4%
2015	16,957	9.1%
2016	16,597	8.9%
2017	16,192	8.6%
2018	15,479	8.3%
2019	14,064	7.5%
2020	11,253	6.0%
2021	10,752	5.7%
Health Characteristics		
Substance abuse	65,839	35.2%
Atrial fibrillation/flutter	2,577	1.4%
Ischemic heart disease	12,553	6.7%
Heart failure	6,928	3.7%
Stroke	4,264	2.3%
Diabetes	44,944	24.0%
Hypertension	81,859	43.7%

**Table 1q. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	Age Under 65 Among LAIA Users	
	Number	Percent
Rheumatic disease	809	0.4%
Chronic kidney disease	18,303	9.8%
Seizure disorder	21,515	11.5%
Antidementia treatment	2,861	1.5%
Dementia Diagnosis	12,583	6.7%
Parkinsons disease	2,400	1.3%
COPD	27,855	14.9%
Malignancy	5,359	2.9%
Asthma	24,853	13.3%
Hyperlipidemia	59,512	31.8%
Depression	78,031	41.7%
Schizophrenia	154,229	82.4%
Bipolar disorder	81,524	43.5%
ACE inhibitor use	30,379	16.2%
ARB use	7,150	3.8%
Beta-blocker use	33,617	18.0%
Oral anticoagulant use	3,203	1.7%
Antiplatelet agent use	2,499	1.3%
Opioid use	33,026	17.6%
Statin use	37,859	20.2%
Wheelchair or walker use	509	0.3%
Anti-arrhythmic use	547	0.3%
Antidiabetic use	30,783	16.4%
Calcium channel blocker use	19,280	10.3%
Diuretic use	25,413	13.6%
Antidepressant use	99,388	53.1%
Gastric acid suppressant use	46,487	24.8%
NSAIDs	38,507	20.6%
Benzodiazepine-Hypnotics use	57,174	30.5%
Chronic liver disease	11,203	6.0%
Pneumonia	7,559	4.0%
Cardiac arrhythmia	23,795	12.7%
Paliperidone palmitate	90,889	48.5%
Risperidone microspheres	33,583	17.9%
Haloperidol decanoate	62,974	33.6%
Injection in past 30 days	0	0.0%
Injection in past 60 days	0	0.0%
Injection in past 90 days	0	0.0%
Injection in past 183 days	0	0.0%
<b>Health Service Utilization Intensity Metrics</b>	<b>Mean</b>	<b>Standard Deviation</b>

**Table 1q. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Patient Characteristics <sup>1</sup>	Age Under 65 Among LAIA Users	
	Number	Percent
Mean number of ambulatory encounters	16.0	19.2
Mean number of emergency room encounters	1.7	3.5
Mean number of inpatient hospital encounters	0.4	1.0
Mean number of non-acute institutional encounters	0.9	1.2
Mean number of other ambulatory encounters	14.2	20.6

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 1r. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age Under 65 Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Unique patients	214,783	N/A
Episodes	7,287,158	100.0%
Demographic Characteristics	Mean	Standard Deviation
Age (years)	46.3	11.0
Age	Number	Percent
18-64 years	7,287,158	100.0%
Sex		
Female	77,993	36.3%
Male	136,790	63.7%
Race <sup>2</sup>		
American Indian or Alaska Native	2,365	1.1%
Asian	4,825	2.2%
Black or African American	65,567	30.5%
Unknown	18,859	8.8%
White	123,167	57.3%
Hispanic origin		
Yes	11,931	5.6%
No	195,924	91.2%
Unknown	6,928	3.2%
Year		
2010	261,915	3.6%
2011	582,015	8.0%
2012	640,246	8.8%
2013	698,385	9.6%
2014	703,819	9.7%
2015	681,049	9.3%
2016	674,117	9.3%
2017	659,835	9.1%
2018	647,017	8.9%
2019	625,410	8.6%
2020	582,318	8.0%
2021	531,032	7.3%
Health Characteristics		
Substance abuse	1,372,877	18.8%
Atrial fibrillation/flutter	71,056	1.0%
Ischemic heart disease	316,318	4.3%
Heart failure	192,343	2.6%
Stroke	98,871	1.4%
Diabetes	1,786,201	24.5%



**Table 1r. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age Under 65 Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Hypertension	2,741,119	37.6%
Rheumatic disease	21,929	0.3%
Chronic kidney disease	592,816	8.1%
Seizure disorder	546,238	7.5%
Antidementia treatment	95,952	1.3%
Dementia Diagnosis	248,908	3.4%
Parkinsons disease	77,249	1.1%
COPD	946,391	13.0%
Malignancy	156,234	2.1%
Asthma	617,644	8.5%
Hyperlipidemia	2,425,430	33.3%
Depression	1,715,419	23.5%
Schizophrenia	5,868,589	80.5%
Bipolar disorder	1,806,256	24.8%
ACE inhibitor use	1,289,209	17.7%
ARB use	329,594	4.5%
Beta-blocker use	1,361,290	18.7%
Oral anticoagulant use	118,779	1.6%
Antiplatelet agent use	88,771	1.2%
Opioid use	1,027,013	14.1%
Statin use	1,938,921	26.6%
Wheelchair or walker use	19,227	0.3%
Anti-arrhythmic use	18,532	0.3%
Antidiabetic use	1,417,648	19.5%
Calcium channel blocker use	775,089	10.6%
Diuretic use	1,054,823	14.5%
Antidepressant use	3,594,179	49.3%
Gastric acid suppressant use	1,953,827	26.8%
NSAIDs	1,416,226	19.4%
Benzodiazepine-Hypnotics use	1,867,769	25.6%
Chronic liver disease	316,902	4.3%
Pneumonia	188,531	2.6%
Cardiac arrhythmia	436,521	6.0%
Paliperidone palmitate	3,181,592	43.7%
Risperidone microspheres	2,137,456	29.3%
Haloperidol decanoate	2,282,629	31.3%
Injection in past 30 days	6,729,960	92.4%
Injection in past 60 days	6,948,280	95.3%
Injection in past 90 days	7,016,158	96.3%

**Table 1r. Characteristics of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Age Under 65 Among LAIA Users with No Washout		
Patient Characteristics <sup>1</sup>	Number	Percent
Injection in past 183 days	7,083,299	97.2%
Health Service Utilization Intensity Metrics	Mean	Standard Deviation
Mean number of ambulatory encounters	13.0	15.9
Mean number of emergency room encounters	0.7	2.3
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.2	0.6
Mean number of other ambulatory encounters	6.2	12.9

<sup>1</sup>All metrics are based on total number of episodes per group, except for sex, race, and Hispanic origin which are based on total number of unique patients.

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

**Table 2. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Sex**

Sex	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users</b>									
Female	78,427	97,979	99,712	103,967	2,451,154	149,383	24,757,600	48,596,325,846	133,049,489.0
Male	102,524	132,399	134,889	141,446	3,380,671	209,879	18,925,507	34,728,118,436	95,080,406.4
<b>LAIA Users with No Washout</b>									
Female	110,080	3,213,271	3,287,786	3,312,860	80,113,215	4,766,689	24,778,245	48,744,255,108	133,454,497.2
Male	154,112	5,450,184	5,589,572	5,640,663	139,488,551	8,511,884	18,960,001	34,967,431,091	95,735,608.7
<b>Institutional Stays Among LAIA Users</b>									
Female	43,978	51,429	52,487	54,039	1,271,549	74,183	6,558,422	2,052,433,771	5,619,257.4
Male	54,455	65,269	66,683	68,821	1,633,800	97,710	4,162,578	1,197,901,594	3,279,675.8
<b>Institutional Stays Among LAIA Users with No Washout</b>									
Female	64,264	524,183	538,800	544,710	12,701,849	761,013	6,574,718	2,081,947,259	5,700,060.9
Male	84,652	726,835	751,000	760,563	18,137,128	1,116,680	4,187,022	1,237,764,747	3,388,815.2
<b>LAIA with Institutional Stay 60 Days Prior</b>									
Female	35,770	40,917	41,816	42,887	1,015,457	58,292	6,322,570	1,035,418,509	2,834,821.4
Male	44,811	52,370	53,577	55,051	1,314,474	77,996	3,991,955	614,876,927	1,683,441.3
<b>LAIA with Institutional Stay 60 Days Prior with No Washout</b>									
Female	55,937	246,509	254,115	257,655	6,000,404	362,138	6,340,164	1,050,007,806	2,874,764.7
Male	74,737	339,906	352,605	358,202	8,503,043	528,581	4,018,178	634,414,596	1,736,932.5

**Table 2. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Sex**

Sex	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates</b>									
Female	10,751	11,449	11,643	11,928	278,270	16,337	6,188,238	391,293,336	1,071,302.8
Male	13,241	14,158	14,456	14,811	350,826	20,858	3,895,678	225,886,751	618,444.2
<b>LAIA Between Institutional Stay Admit and Discharge Dates with No Washout</b>									
Female	25,315	70,203	71,915	73,256	1,686,956	103,881	6,206,439	395,867,942	1,083,827.4
Male	33,966	85,305	88,352	90,272	2,124,366	136,687	3,922,902	231,514,119	633,851.1
<b>LAIA Users without Institutional Stays</b>									
Female	40,311	46,550	47,225	49,928	1,179,605	75,200	24,622,444	46,543,892,075	127,430,231.6
Male	56,873	67,130	68,206	72,625	1,746,871	112,169	18,813,840	33,530,216,842	91,800,730.6
<b>LAIA Users without Institutional Stays with No Washout</b>									
Female	90,630	2,689,088	2,748,986	2,768,150	67,411,366	4,005,676	24,644,909	46,662,307,849	127,754,436.3
Male	132,837	4,723,349	4,838,572	4,880,100	121,351,423	7,395,204	18,851,014	33,729,666,344	92,346,793.5
<b>Dementia Among LAIA Users</b>									
Female	7,147	7,461	7,517	7,617	157,011	10,957	2,313,708	1,694,985,823	4,640,618.3
Male	4,279	4,451	4,496	4,586	96,081	6,808	1,235,054	802,023,596	2,195,820.9
<b>Dementia Among LAIA Users with No Washout</b>									
Female	10,767	122,503	123,925	124,671	2,626,826	168,636	2,316,930	1,700,218,632	4,654,944.9
Male	6,836	74,908	75,899	76,589	1,681,854	106,731	1,237,404	805,400,606	2,205,066.7

**Table 2. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Sex**

Sex	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Dementia</b>									
Female	71,899	90,518	92,195	96,350	2,294,143	138,426	24,501,357	46,901,340,023	128,408,870.7
Male	98,663	127,948	130,393	136,860	3,284,590	203,071	18,791,332	33,926,094,840	92,884,585.5
<b>LAIA Users without Dementia with No Washout</b>									
Female	104,293	3,090,768	3,163,861	3,188,189	77,486,389	4,598,053	24,522,054	47,044,036,476	128,799,552.3
Male	150,715	5,375,276	5,513,673	5,564,074	137,806,697	8,405,152	18,825,897	34,162,030,485	93,530,542.1
<b>Age 65 and Older Among LAIA Users</b>									
Female	24,360	28,040	28,372	28,874	642,478	42,335	21,227,227	40,803,820,003	111,714,770.7
Male	13,327	15,090	15,260	15,639	346,521	24,060	15,267,429	26,994,462,983	73,906,811.7
<b>Age 65 and Older Among LAIA Users with No Washout</b>									
Female	37,528	863,297	879,731	885,413	20,145,204	1,228,964	21,237,890	40,841,613,896	111,818,244.8
Male	23,649	513,000	521,896	526,417	12,419,360	759,036	15,276,691	27,017,630,140	73,970,239.9
<b>Age &lt;65 Among LAIA Users</b>									
Female	54,859	69,939	71,340	75,093	1,808,676	107,048	4,585,025	7,792,505,843	21,334,718.3
Male	89,983	117,309	119,629	125,807	3,034,150	185,819	4,540,890	7,733,655,453	21,173,594.7
<b>Age &lt;65 Among LAIA Users with No Washout</b>									
Female	77,993	2,349,974	2,408,055	2,427,447	59,968,011	3,537,725	4,600,265	7,902,641,212	21,636,252.5
Male	136,790	4,937,184	5,067,676	5,114,246	127,069,191	7,752,848	4,572,667	7,949,800,951	21,765,368.8

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

**Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Age Group**

Age Group	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users</b>									
18-64 years	144,842	187,248	190,969	200,900	4,842,826	292,867	9,125,919	15,526,167,234	42,508,329.2
≥ 65 years	37,687	43,130	43,632	44,513	988,999	66,395	36,494,660	67,798,287,673	185,621,595.3
<b>LAIA Users with No Washout</b>									
18-64 years	214,783	7,287,158	7,475,731	7,541,693	187,037,202	11,290,573	9,172,936	15,852,448,101	43,401,637.5
≥ 65 years	61,177	1,376,297	1,401,627	1,411,830	32,564,564	1,988,000	36,514,585	67,859,248,723	185,788,497.5
<b>Institutional Stays Among LAIA Users</b>									
18-64 years	78,178	94,056	96,193	99,537	2,389,120	139,481	1,822,763	615,807,436	1,685,988.9
≥ 65 years	20,849	22,642	22,977	23,323	516,229	32,412	9,080,304	2,634,528,403	7,212,945.7
<b>Institutional Stays Among LAIA Users with No Washout</b>									
18-64 years	118,858	1,015,623	1,049,718	1,063,058	25,520,899	1,551,289	1,854,924	672,098,236	1,840,104.7
≥ 65 years	33,407	235,395	240,082	242,215	5,318,078	326,404	9,093,186	2,647,614,244	7,248,772.7
<b>LAIA with Institutional Stay 60 Days Prior</b>									
18-64 years	65,078	76,252	78,068	80,367	1,938,290	111,837	1,723,161	303,333,283	830,481.3
≥ 65 years	15,916	17,035	17,325	17,571	391,641	24,451	8,742,965	1,346,962,396	3,687,782.1
<b>LAIA with Institutional Stay 60 Days Prior with No Washout</b>									
18-64 years	105,623	473,595	491,448	499,305	11,954,197	732,349	1,757,506	330,626,203	905,205.2
≥ 65 years	27,548	112,820	115,272	116,552	2,549,250	158,371	8,756,636	1,353,796,442	3,706,492.7

**Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Age Group**

Age Group	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates</b>									
18-64 years	18,366	19,733	20,146	20,704	496,829	28,823	1,665,546	98,063,499	268,483.2
≥ 65 years	5,679	5,874	5,953	6,035	132,267	8,372	8,552,011	519,116,652	1,421,263.9
<b>LAIA Between Institutional Stay Admit and Discharge Dates with No Washout</b>									
18-64 years	46,892	110,704	114,756	117,417	2,826,996	178,568	1,701,131	105,572,953	289,043.0
≥ 65 years	13,143	44,804	45,511	46,111	984,326	62,000	8,565,922	521,809,172	1,428,635.7
<b>LAIA Users without Institutional Stays</b>									
18-64 years	79,155	93,192	94,776	101,363	2,453,706	153,386	9,076,923	14,910,359,798	40,822,340.3
≥ 65 years	18,530	20,488	20,655	21,190	472,770	33,983	36,272,103	65,163,759,270	178,408,649.6
<b>LAIA Users without Institutional Stays with No Washout</b>									
18-64 years	184,643	6,271,535	6,426,013	6,478,635	161,516,303	9,739,284	9,127,774	15,180,349,865	41,561,532.8
≥ 65 years	49,173	1,140,902	1,161,545	1,169,615	27,246,486	1,661,596	36,292,995	65,211,634,479	178,539,724.8
<b>Dementia Among LAIA Users</b>									
18-64 years	1,651	1,717	1,747	1,792	40,438	2,558	137,307	77,015,600	210,857.2
≥ 65 years	9,801	10,195	10,266	10,411	212,654	15,207	3,446,293	2,419,993,819	6,625,582.0
<b>Dementia Among LAIA Users with No Washout</b>									
18-64 years	3,651	44,410	45,191	45,688	1,042,255	65,881	139,304	78,939,179	216,123.7
≥ 65 years	14,414	153,001	154,633	155,572	3,266,425	209,487	3,450,479	2,426,680,059	6,643,887.9

**Table 3. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Age Group**

Age Group	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Dementia</b>									
18-64 years	143,511	185,531	189,222	199,108	4,802,388	290,309	9,111,729	15,449,151,634	42,297,472.0
≥ 65 years	28,501	32,935	33,366	34,102	776,345	51,187	36,104,662	65,378,293,854	178,996,013.3
<b>LAIA Users without Dementia with No Washout</b>									
18-64 years	213,847	7,242,748	7,430,540	7,496,005	185,994,947	11,224,692	9,158,860	15,773,508,922	43,185,513.8
≥ 65 years	52,632	1,223,296	1,246,994	1,256,258	29,298,139	1,778,514	36,124,546	65,432,568,664	179,144,609.6
<b>Age 65 and Older Among LAIA Users</b>									
≥ 65 years	37,687	43,130	43,632	44,513	988,999	66,395	36,494,660	67,798,287,673	185,621,595.3
<b>Age 65 and Older Among LAIA Users with No Washout</b>									
≥ 65 years	61,177	1,376,297	1,401,627	1,411,830	32,564,564	1,988,000	36,514,585	67,859,248,723	185,788,497.5
<b>Age &lt;65 Among LAIA Users</b>									
18-64 years	144,842	187,248	190,969	200,900	4,842,826	292,867	9,125,919	15,526,167,234	42,508,329.2
<b>Age &lt;65 Among LAIA Users with No Washout</b>									
18-64 years	214,783	7,287,158	7,475,731	7,541,693	187,037,202	11,290,573	9,172,936	15,852,448,101	43,401,637.5

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



**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users</b>									
2010	11,368	11,368	11,561	11,776	272,102	22,896	16,794,901	2,911,709,121	7,971,825.1
2011	23,591	23,799	24,211	24,983	551,626	43,924	18,221,410	5,953,189,635	16,298,944.9
2012	23,952	24,139	24,566	25,551	571,074	41,087	19,252,928	6,275,338,458	17,180,940.3
2013	23,711	23,903	24,339	25,294	570,030	37,401	21,682,723	6,834,790,080	18,712,635.4
2014	21,462	21,630	22,030	22,966	542,676	32,957	22,392,589	7,311,813,597	20,018,654.6
2015	20,634	20,767	21,161	22,191	529,487	31,385	22,983,679	7,496,551,362	20,524,439.0
2016	20,287	20,424	20,809	21,902	531,904	29,784	23,670,572	7,795,187,455	21,342,060.1
2017	19,775	19,903	20,256	21,286	524,656	28,434	23,853,309	7,859,579,005	21,518,354.6
2018	18,986	19,092	19,441	20,554	515,811	27,048	23,827,784	7,866,925,444	21,538,468.0
2019	17,404	17,518	17,893	18,961	478,953	25,126	23,757,668	7,835,129,533	21,451,415.6
2020	14,081	14,182	14,446	15,216	385,695	20,092	23,279,510	7,748,655,949	21,214,663.8
2021	13,562	13,653	13,888	14,733	357,811	19,129	22,412,916	7,435,585,268	20,357,523.0
<b>LAIA Users with No Washout</b>									
2010	61,290	305,977	313,069	315,566	6,507,217	533,662	16,863,062	2,926,010,529	8,010,980.2
2011	79,624	677,877	693,735	700,306	14,946,258	1,144,888	18,285,867	5,983,292,765	16,381,362.8
2012	84,868	747,568	764,113	771,467	17,198,493	1,201,586	19,321,293	6,306,861,223	17,267,245.0
2013	92,058	815,466	834,749	842,410	19,123,061	1,273,217	21,754,844	6,867,842,752	18,803,128.7
2014	91,777	825,115	843,737	850,963	19,743,799	1,256,023	22,469,151	7,345,284,971	20,110,294.2
2015	89,383	800,695	820,280	827,404	19,680,510	1,214,778	23,062,039	7,530,133,443	20,616,381.8
2016	90,428	798,187	817,737	824,667	20,758,321	1,200,083	23,752,399	7,830,466,303	21,438,648.3
2017	91,151	787,993	807,488	814,281	21,136,076	1,174,976	23,939,026	7,895,645,446	21,617,099.1
2018	91,216	779,540	799,034	805,705	21,502,458	1,158,767	23,916,671	7,903,694,575	21,639,136.4

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2019	89,212	760,577	780,864	787,400	21,280,923	1,133,600	23,847,736	7,871,735,715	21,551,637.8
2020	82,742	710,725	730,393	736,087	20,088,169	1,056,184	23,366,022	7,783,498,831	21,310,058.4
2021	76,239	653,735	672,159	677,267	17,636,481	930,810	22,493,173	7,467,230,271	20,444,162.3
<b>Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users</b>									
2010	5,126	5,126	5,237	5,329	116,634	9,241	1,259,080	130,367,176	356,925.9
2011	11,059	11,113	11,361	11,637	248,734	19,039	1,873,606	272,294,749	745,502.4
2012	11,820	11,869	12,126	12,456	276,511	19,385	1,924,756	281,048,197	769,468.0
2013	12,126	12,190	12,429	12,761	287,826	17,995	2,058,153	296,027,164	810,478.2
2014	11,084	11,142	11,362	11,668	275,001	16,126	2,116,771	305,920,741	837,565.3
2015	10,507	10,557	10,787	11,151	265,980	15,223	2,139,332	309,661,214	847,806.2
2016	10,528	10,582	10,818	11,178	271,501	14,782	2,135,042	308,701,698	845,179.2
2017	10,223	10,269	10,477	10,822	267,098	14,128	2,091,247	303,243,462	830,235.4
2018	9,965	10,005	10,205	10,583	263,571	13,512	2,021,419	291,428,769	797,888.5
2019	9,171	9,220	9,457	9,818	248,379	12,782	1,944,637	277,430,764	759,564.0
2020	7,606	7,649	7,808	8,084	204,474	10,424	1,796,540	247,171,151	676,717.7
2021	6,929	6,976	7,103	7,373	179,640	9,256	1,617,583	227,040,754	621,603.7
<b>Institutional Stays Among LAIA Users with No Washout</b>									
2010	14,986	49,854	51,183	51,710	1,050,100	83,353	1,275,571	133,061,715	364,303.1
2011	25,305	109,605	112,709	114,076	2,387,953	179,296	1,893,476	277,984,318	761,079.6
2012	27,152	119,238	122,501	123,923	2,716,956	185,946	1,945,232	287,083,122	785,990.8
2013	28,831	125,116	128,657	130,104	2,914,790	189,817	2,079,696	302,247,714	827,509.1
2014	27,903	120,444	124,098	125,681	2,890,093	180,420	2,139,389	312,247,665	854,887.5
2015	26,521	111,746	115,210	116,697	2,750,900	168,660	2,161,740	315,786,208	864,575.5

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2016	26,774	112,265	115,819	117,253	2,867,735	164,763	2,158,226	315,062,495	862,594.1
2017	26,603	110,922	114,560	115,943	2,884,967	161,209	2,114,954	309,667,714	847,824.0
2018	26,295	108,663	111,958	113,382	2,882,174	157,746	2,045,673	297,836,927	815,433.1
2019	25,102	103,892	107,500	108,796	2,791,587	151,057	1,968,675	283,672,566	776,653.2
2020	22,875	93,425	96,696	97,811	2,497,252	135,350	1,820,030	252,898,547	692,398.5
2021	20,811	85,848	88,909	89,897	2,204,470	120,074	1,638,478	232,163,489	635,629.0
<b>Long-acting Injectable Antipsychotics (LAIA) with Institutional Stay 60 Days Prior</b>									
2010	3,972	3,972	4,062	4,129	89,946	7,151	985,509	66,285,820	181,480.7
2011	8,687	8,719	8,933	9,126	195,403	14,662	1,584,323	140,491,070	384,643.6
2012	9,441	9,477	9,691	9,949	222,733	15,571	1,624,643	145,239,833	397,645.0
2013	9,745	9,793	9,993	10,224	231,490	14,320	1,730,014	152,348,699	417,108.0
2014	8,868	8,905	9,099	9,323	221,128	12,815	1,783,109	157,306,518	430,681.8
2015	8,446	8,479	8,675	8,922	214,181	12,158	1,804,083	158,730,317	434,579.9
2016	8,538	8,574	8,793	9,027	219,875	11,859	1,797,679	157,944,134	432,427.5
2017	8,287	8,323	8,497	8,746	217,875	11,336	1,766,254	154,412,530	422,758.5
2018	8,023	8,054	8,226	8,473	212,578	10,801	1,701,727	146,875,586	402,123.4
2019	7,421	7,461	7,650	7,892	200,396	10,239	1,629,942	137,854,286	377,424.5
2020	6,103	6,134	6,270	6,448	164,285	8,280	1,502,036	122,752,838	336,079.0
2021	5,364	5,396	5,504	5,679	140,041	7,095	1,370,617	110,054,048	301,311.6
<b>LAIA with Institutional Stay 60 Days Prior with No Washout</b>									
2010	10,384	23,201	23,897	24,209	492,383	39,588	998,786	67,613,381	185,115.3
2011	19,229	51,596	53,202	53,945	1,124,366	84,895	1,601,815	143,314,371	392,373.4
2012	21,096	56,452	58,192	59,063	1,288,568	90,008	1,642,773	148,238,315	405,854.4

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2013	22,345	59,346	61,262	62,108	1,383,033	90,711	1,748,919	155,445,423	425,586.4
2014	21,516	56,975	59,048	60,046	1,377,086	86,558	1,802,688	160,439,069	439,258.2
2015	20,493	52,917	54,728	55,622	1,309,491	82,118	1,823,365	161,758,345	442,870.2
2016	20,692	53,031	54,969	55,781	1,352,314	78,188	1,817,761	161,085,392	441,027.8
2017	20,635	52,672	54,523	55,361	1,370,332	77,030	1,786,756	157,584,905	431,444.0
2018	20,252	50,768	52,525	53,380	1,352,322	74,362	1,722,500	150,011,852	410,710.1
2019	19,333	48,784	50,652	51,414	1,319,286	71,525	1,650,471	140,902,737	385,770.7
2020	17,443	43,178	44,803	45,486	1,159,419	62,988	1,522,183	125,577,456	343,812.3
2021	15,491	37,495	38,919	39,442	974,847	52,749	1,388,523	112,451,399	307,875.2
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates</b>									
2010	1,078	1,078	1,096	1,107	23,104	1,899	806,074	24,880,301	68,118.6
2011	2,373	2,377	2,426	2,472	51,783	3,962	1,420,776	55,033,373	150,673.2
2012	2,594	2,601	2,659	2,707	58,382	4,063	1,455,428	57,642,787	157,817.3
2013	2,732	2,740	2,793	2,865	62,999	3,944	1,545,543	59,910,863	164,027.0
2014	2,637	2,644	2,696	2,764	64,574	3,879	1,601,523	61,806,797	169,217.8
2015	2,364	2,369	2,414	2,478	59,437	3,406	1,617,219	61,756,202	169,079.3
2016	2,307	2,315	2,359	2,406	57,818	3,189	1,607,184	61,128,642	167,361.1
2017	2,285	2,291	2,334	2,396	59,267	3,151	1,580,051	58,516,535	160,209.5
2018	2,207	2,211	2,251	2,320	58,788	2,965	1,520,944	54,002,328	147,850.3
2019	1,942	1,949	1,996	2,049	51,992	2,638	1,455,718	48,190,483	131,938.4
2020	1,613	1,619	1,647	1,696	43,658	2,225	1,337,678	41,092,117	112,504.1
2021	1,408	1,413	1,428	1,479	37,294	1,874	1,197,962	33,219,723	90,950.6

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates with No Washout</b>									
2010	3,362	5,576	5,726	5,829	119,077	9,534	817,101	25,276,546	69,203.4
2011	6,899	13,787	14,152	14,386	294,254	22,408	1,437,300	55,926,117	153,117.4
2012	7,701	15,224	15,612	15,915	339,243	24,106	1,472,511	58,581,621	160,387.7
2013	8,370	16,340	16,818	17,181	375,225	25,381	1,563,345	60,878,770	166,677.0
2014	8,220	15,674	16,261	16,691	379,920	24,659	1,619,772	62,771,022	171,857.7
2015	7,588	14,192	14,630	14,960	351,297	24,134	1,635,048	62,677,960	171,602.9
2016	7,684	14,416	14,858	15,107	357,891	21,435	1,625,812	62,078,567	169,961.9
2017	7,720	14,465	14,871	15,160	365,418	21,213	1,599,085	59,473,297	162,829.0
2018	7,467	13,653	14,052	14,383	363,543	20,291	1,540,194	54,931,124	150,393.2
2019	7,187	12,686	13,127	13,360	342,329	19,007	1,474,781	49,064,267	134,330.6
2020	6,286	10,901	11,258	11,503	294,630	16,103	1,356,496	41,900,662	114,717.8
2021	5,426	8,594	8,902	9,053	228,495	12,296	1,213,957	33,822,172	92,600.1
<b>LAIA Users without Institutional Stays</b>									
2010	6,242	6,242	6,324	6,447	155,468	13,655	16,516,475	2,781,341,945	7,614,899.2
2011	12,574	12,686	12,850	13,346	302,892	24,885	18,031,048	5,680,894,886	15,553,442.5
2012	12,184	12,270	12,440	13,095	294,563	21,702	19,053,573	5,994,290,261	16,411,472.3
2013	11,641	11,713	11,910	12,533	282,204	19,405	21,462,646	6,538,762,916	17,902,157.2
2014	10,426	10,488	10,668	11,298	267,675	16,831	22,183,116	7,005,892,856	19,181,089.3
2015	10,165	10,210	10,374	11,040	263,507	16,162	22,766,051	7,186,890,148	19,676,632.8
2016	9,795	9,842	9,991	10,724	260,403	15,002	23,456,668	7,486,485,757	20,496,880.9
2017	9,585	9,634	9,779	10,464	257,558	14,307	23,642,914	7,556,335,543	20,688,119.2
2018	9,048	9,087	9,236	9,971	252,240	13,536	23,627,737	7,575,496,675	20,740,579.5

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

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2019	8,266	8,298	8,436	9,143	230,574	12,344	23,571,682	7,557,698,769	20,691,851.5
2020	6,496	6,533	6,638	7,132	181,221	9,668	23,102,603	7,501,484,798	20,537,946.1
2021	6,656	6,677	6,785	7,360	178,171	9,873	22,250,877	7,208,544,514	19,735,919.3
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout</b>									
2010	51,850	256,123	261,886	263,856	5,457,117	450,308	16,581,890	2,792,948,814	7,646,677.1
2011	67,796	568,272	581,026	586,230	12,558,305	965,592	18,097,399	5,705,308,447	15,620,283.2
2012	72,440	628,330	641,612	647,544	14,481,537	1,015,640	19,123,732	6,019,778,101	16,481,254.2
2013	78,827	690,350	706,092	712,306	16,208,271	1,083,400	21,536,481	6,565,595,038	17,975,619.5
2014	79,308	704,671	719,639	725,282	16,853,706	1,075,603	22,261,043	7,033,037,306	19,255,406.7
2015	77,347	688,949	705,070	710,707	16,929,610	1,046,117	22,845,388	7,214,347,235	19,751,806.3
2016	78,355	685,922	701,918	707,414	17,890,586	1,035,319	23,539,606	7,515,403,808	20,576,054.2
2017	79,133	677,071	692,928	698,338	18,251,109	1,013,767	23,729,544	7,585,977,732	20,769,275.1
2018	79,521	670,877	687,076	692,323	18,620,284	1,001,021	23,717,359	7,605,857,648	20,823,703.3
2019	78,111	656,685	673,364	678,604	18,489,336	982,543	23,662,285	7,588,063,149	20,774,984.7
2020	73,217	617,300	633,697	638,276	17,590,917	920,834	23,189,484	7,530,600,284	20,617,659.9
2021	67,562	567,887	583,250	587,370	15,432,011	810,735	22,331,204	7,235,066,782	19,808,533.3
<b>Dementia Among LAIA Users</b>									
2010	608	608	613	617	11,979	1,011	780,924	106,230,838	290,844.2
2011	1,303	1,305	1,312	1,324	25,432	2,316	964,715	215,279,960	589,404.4
2012	1,290	1,292	1,303	1,318	25,967	1,997	971,004	218,862,705	599,213.4
2013	1,295	1,297	1,312	1,329	26,472	1,878	1,032,620	227,076,082	621,700.4
2014	1,166	1,167	1,173	1,185	24,300	1,640	1,031,585	234,457,693	641,910.2
2015	1,101	1,102	1,110	1,126	23,612	1,527	1,019,452	229,134,463	627,336.0

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2016	1,069	1,070	1,078	1,102	23,206	1,472	1,018,009	234,413,237	641,788.5
2017	1,026	1,027	1,036	1,054	22,672	1,373	990,540	230,124,795	630,047.4
2018	943	946	957	976	21,447	1,326	946,435	220,594,539	603,954.9
2019	841	844	850	870	19,327	1,245	906,238	211,722,141	579,663.6
2020	647	647	652	666	14,840	1,007	841,387	191,486,866	524,262.5
2021	606	607	617	636	13,838	974	776,646	177,626,100	486,313.8
<b>Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout</b>									
2010	1,916	8,129	8,211	8,258	155,659	11,995	782,934	106,588,850	291,824.4
2011	3,025	17,834	17,961	18,057	349,144	27,689	967,002	216,052,664	591,520.0
2012	3,142	19,088	19,250	19,344	388,207	27,253	973,374	219,662,589	601,403.4
2013	3,291	19,867	20,064	20,202	409,077	27,563	1,035,053	227,895,210	623,943.1
2014	3,169	19,320	19,502	19,638	408,764	26,434	1,034,063	235,269,394	644,132.5
2015	3,044	18,516	18,732	18,831	402,538	24,938	1,021,894	229,916,203	629,476.3
2016	2,958	17,936	18,192	18,337	397,301	23,976	1,020,426	235,200,405	643,943.6
2017	2,897	17,530	17,816	17,999	401,360	23,728	992,983	230,905,852	632,185.8
2018	2,762	16,929	17,170	17,340	396,403	22,955	948,861	221,351,434	606,027.2
2019	2,646	16,423	16,694	16,849	389,706	23,276	908,575	212,448,308	581,651.8
2020	2,307	13,802	13,972	14,059	330,652	19,280	843,598	192,126,639	526,014.1
2021	1,986	12,037	12,260	12,346	279,869	16,279	778,558	178,201,690	487,889.6
<b>LAIA Users without Dementia</b>									
2010	10,760	10,760	10,948	11,159	260,123	21,885	16,380,287	2,805,478,283	7,680,980.9
2011	22,292	22,494	22,899	23,659	526,194	41,608	17,865,209	5,737,909,675	15,709,540.5
2012	22,665	22,847	23,263	24,233	545,107	39,090	18,889,881	6,056,475,753	16,581,726.9

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2013	22,420	22,606	23,027	23,965	543,558	35,523	21,285,999	6,607,713,998	18,090,935.0
2014	20,302	20,463	20,857	21,781	518,376	31,317	22,002,906	7,077,355,904	19,376,744.4
2015	19,533	19,665	20,051	21,065	505,875	29,858	22,595,296	7,267,416,899	19,897,103.1
2016	19,222	19,354	19,731	20,800	508,698	28,312	23,278,773	7,560,774,218	20,700,271.6
2017	18,751	18,876	19,220	20,232	501,984	27,061	23,462,106	7,629,454,210	20,888,307.2
2018	18,045	18,146	18,484	19,578	494,364	25,722	23,447,262	7,646,330,905	20,934,513.1
2019	16,565	16,674	17,043	18,091	459,626	23,880	23,391,405	7,623,407,392	20,871,751.9
2020	13,434	13,535	13,794	14,550	370,855	19,085	22,950,560	7,557,169,083	20,690,401.3
2021	12,957	13,046	13,271	14,097	343,973	18,155	22,115,022	7,257,959,168	19,871,209.2
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout</b>									
2010	59,802	297,848	304,858	307,308	6,351,558	521,666	16,447,480	2,819,421,679	7,719,155.9
2011	77,567	660,043	675,774	682,249	14,597,114	1,117,200	17,929,132	5,767,240,101	15,789,842.9
2012	82,759	728,480	744,863	752,123	16,810,286	1,174,333	18,957,583	6,087,198,634	16,665,841.6
2013	89,860	795,599	814,685	822,208	18,713,984	1,245,654	21,357,477	6,639,947,542	18,179,185.6
2014	89,687	805,795	824,235	831,325	19,335,035	1,229,589	22,078,755	7,110,015,577	19,466,161.7
2015	87,381	782,179	801,548	808,573	19,277,972	1,189,840	22,672,925	7,300,217,240	19,986,905.5
2016	88,483	780,251	799,545	806,330	20,361,020	1,176,106	23,359,861	7,595,265,898	20,794,704.7
2017	89,266	770,463	789,672	796,282	20,734,716	1,151,249	23,547,078	7,664,739,594	20,984,913.3
2018	89,385	762,611	781,864	788,365	21,106,055	1,135,812	23,535,363	7,682,343,141	21,033,109.2
2019	87,510	744,154	764,170	770,551	20,891,217	1,110,324	23,480,679	7,659,287,407	20,969,986.1
2020	81,274	696,923	716,421	722,028	19,757,517	1,036,904	23,036,341	7,591,372,192	20,784,044.3
2021	74,954	641,698	659,899	664,921	17,356,612	914,531	22,194,622	7,289,028,581	19,956,272.6



**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Age 65 and Older Among LAIA Users</b>									
2010	2,088	2,088	2,110	2,119	46,656	3,993	12,824,930	2,227,806,218	6,099,401.0
2011	4,301	4,338	4,378	4,438	93,307	7,989	13,921,161	4,541,804,761	12,434,783.7
2012	4,184	4,214	4,273	4,336	91,694	7,747	14,830,527	4,813,875,255	13,179,672.2
2013	4,230	4,255	4,286	4,342	92,460	6,434	17,110,403	5,338,528,712	14,616,095.0
2014	3,967	3,990	4,023	4,068	90,622	6,088	17,802,731	5,812,459,495	15,913,646.8
2015	3,794	3,810	3,852	3,924	86,833	5,632	18,468,999	6,027,861,554	16,503,385.5
2016	3,814	3,827	3,875	3,970	87,910	5,506	19,232,633	6,333,277,830	17,339,569.7
2017	3,695	3,711	3,759	3,844	87,576	5,162	19,556,076	6,453,696,933	17,669,259.2
2018	3,593	3,613	3,660	3,747	86,017	4,839	19,737,201	6,537,908,841	17,899,818.9
2019	3,436	3,454	3,502	3,623	85,108	4,820	19,960,226	6,605,467,504	18,084,784.4
2020	2,913	2,929	2,967	3,049	71,555	4,148	19,865,279	6,633,773,112	18,162,280.9
2021	2,885	2,901	2,947	3,053	69,261	4,038	19,423,026	6,471,827,458	17,718,897.9
<b>Age 65 and Older Among LAIA Users with No Washout</b>									
2010	9,103	44,062	44,650	44,967	896,335	72,231	12,835,325	2,229,987,474	6,105,373.0
2011	12,495	95,862	97,149	97,861	2,010,106	153,996	13,931,208	4,546,339,600	12,447,199.5
2012	13,210	107,322	108,656	109,442	2,314,565	162,353	14,841,335	4,818,632,641	13,192,697.2
2013	14,455	117,081	118,842	119,765	2,583,388	173,865	17,121,841	5,343,500,721	14,629,707.7
2014	14,566	121,296	123,088	124,002	2,742,103	177,454	17,814,750	5,817,504,942	15,927,460.5
2015	14,412	119,646	121,684	122,639	2,774,176	174,615	18,481,489	6,032,943,948	16,517,300.3
2016	14,847	124,070	126,334	127,234	2,953,083	175,879	19,245,810	6,338,619,314	17,354,193.9
2017	15,326	128,158	130,794	131,676	3,133,392	179,009	19,570,256	6,459,277,696	17,684,538.5
2018	15,783	132,523	135,551	136,517	3,324,999	184,628	19,752,355	6,543,786,257	17,915,910.4

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2019	15,991	135,167	138,281	139,385	3,439,293	189,642	19,976,024	6,611,503,126	18,101,309.0
2020	15,541	128,407	131,202	132,123	3,325,338	179,709	19,881,101	6,639,703,589	18,178,517.7
2021	14,719	122,703	125,396	126,219	3,067,786	164,617	19,438,089	6,477,449,415	17,734,290.0
<b>Age &lt;65 Among Long-acting Injectable Antipsychotics (LAIA) Users</b>									
2010	9,280	9,280	9,451	9,657	225,446	18,903	4,029,925	683,902,903	1,872,424.1
2011	19,292	19,461	19,833	20,545	458,319	35,935	4,437,469	1,411,384,874	3,864,161.2
2012	19,772	19,925	20,293	21,215	479,380	33,340	4,573,855	1,461,463,203	4,001,268.2
2013	19,482	19,648	20,053	20,952	477,570	30,967	4,726,907	1,496,261,368	4,096,540.4
2014	17,496	17,640	18,007	18,898	452,054	26,869	4,751,500	1,499,354,102	4,105,007.8
2015	16,840	16,957	17,309	18,267	442,654	25,753	4,678,641	1,468,689,808	4,021,053.5
2016	16,473	16,597	16,934	17,932	443,994	24,278	4,612,722	1,461,909,625	4,002,490.4
2017	16,081	16,192	16,497	17,442	437,080	23,273	4,472,673	1,405,882,072	3,849,095.3
2018	15,393	15,479	15,781	16,807	429,794	22,209	4,264,006	1,329,016,603	3,638,649.2
2019	13,970	14,064	14,391	15,338	393,845	20,306	3,965,766	1,229,662,029	3,366,631.2
2020	11,169	11,253	11,479	12,167	314,140	15,943	3,569,131	1,114,882,837	3,052,382.9
2021	10,677	10,752	10,941	11,680	288,550	15,091	3,128,085	963,757,810	2,638,625.1
<b>Age &lt;65 Among LAIA Users with No Washout</b>									
2010	52,319	261,915	268,419	270,599	5,610,882	461,430	4,088,052	696,023,055	1,905,607.3
2011	67,628	582,015	596,586	602,445	12,936,152	990,893	4,492,761	1,436,953,165	3,934,163.4
2012	72,240	640,246	655,457	662,025	14,883,928	1,039,232	4,632,380	1,488,228,582	4,074,547.8
2013	78,240	698,385	715,907	722,645	16,539,673	1,099,352	4,788,640	1,524,342,031	4,173,421.0
2014	77,905	703,819	720,649	726,961	17,001,696	1,078,569	4,817,169	1,527,780,029	4,182,833.8
2015	75,709	681,049	698,596	704,765	16,906,334	1,040,163	4,745,685	1,497,189,495	4,099,081.4

**Table 4. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Year**

Year	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
2016	76,431	674,117	691,403	697,433	17,805,238	1,024,203	4,682,710	1,491,846,989	4,084,454.5
2017	76,702	659,835	676,694	682,605	18,002,684	995,967	4,545,633	1,436,367,750	3,932,560.6
2018	76,303	647,017	663,483	669,188	18,177,459	974,139	4,339,234	1,359,908,318	3,723,226.1
2019	74,154	625,410	642,583	648,015	17,841,630	943,958	4,041,672	1,260,232,589	3,450,328.8
2020	68,134	582,318	599,191	603,964	16,762,831	876,475	3,641,409	1,143,795,242	3,131,540.7
2021	62,411	531,032	546,763	551,048	14,568,695	766,192	3,194,768	989,780,856	2,709,872.3

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

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users</b>									
American Indian or Alaska Native	1,875	2,462	2,521	2,692	63,258	3,728	222,324	439,169,242	1,202,379.9
Asian	3,664	4,798	4,896	5,193	127,617	7,404	996,749	1,816,982,015	4,974,625.6
Black or African American	52,050	70,639	71,999	74,759	1,786,311	113,003	4,741,923	7,996,206,137	21,892,419.3
Unknown	13,402	16,966	17,377	18,324	437,631	25,890	2,731,336	4,489,116,015	12,290,529.8
White	109,960	135,513	137,808	144,445	3,417,008	209,237	34,990,783	68,582,981,498	187,769,969.9
<b>LAIA Users with No Washout</b>									
American Indian or Alaska Native	2,621	95,691	97,944	98,936	2,358,140	142,260	222,805	443,224,063	1,213,481.3
Asian	5,536	189,399	193,786	195,114	4,992,378	280,709	998,015	1,825,252,513	4,997,269.0
Black or African American	77,643	2,554,963	2,622,311	2,641,345	65,175,338	4,004,218	4,759,159	8,114,600,520	22,216,565.4
Unknown	20,970	589,422	606,523	611,508	15,479,308	881,141	2,737,321	4,516,647,662	12,365,907.4
White	157,422	5,233,980	5,356,794	5,406,620	131,596,602	7,970,245	35,020,954	68,811,972,066	188,396,911.9
<b>Institutional Stays Among LAIA Users</b>									
American Indian or Alaska Native	918	1,068	1,098	1,156	28,211	1,591	58,805	18,013,818	49,319.1
Asian	1,939	2,335	2,403	2,478	59,178	3,305	164,977	45,642,906	124,963.5
Black or African American	28,039	34,735	35,568	36,547	869,469	52,536	1,221,328	386,011,879	1,056,842.9
Unknown	7,113	8,423	8,662	8,978	212,264	12,207	415,591	119,584,231	327,403.8
White	60,424	70,137	71,439	73,701	1,736,227	102,253	8,860,300	2,681,083,005	7,340,405.2

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

<b>Race</b>	<b>Number of Patients</b>	<b>Number of Index Dates</b>	<b>Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)</b>	<b>Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)</b>	<b>Total Days Supply in Index Date Defining-Records</b>	<b>Total Amount Supplied in Index Date Defining-Records</b>	<b>Number of Eligible Members<sup>2</sup></b>	<b>Total Eligible Member-Days<sup>2</sup></b>	<b>Total Eligible Member-Years<sup>2</sup></b>
<b>Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout</b>									
American Indian or Alaska Native	1,389	11,862	12,199	12,339	290,505	17,056	59,176	18,653,228	51,069.8
Asian	2,886	23,036	23,858	24,114	589,763	33,741	165,742	46,887,157	128,370.0
Black or African American	42,567	349,721	361,949	366,051	8,769,333	546,549	1,233,332	406,199,306	1,112,113.1
Unknown	11,130	87,799	91,192	92,213	2,215,014	129,230	419,129	124,612,233	341,169.7
White	90,944	778,600	800,602	810,556	18,974,362	1,151,117	8,884,362	2,723,360,556	7,456,154.8
<b>LAIA with Institutional Stay 60 Days Prior</b>									
American Indian or Alaska Native	730	827	854	897	21,603	1,194	56,506	9,055,674	24,793.1
Asian	1,608	1,887	1,946	2,001	47,571	2,669	157,950	22,918,404	62,747.2
Black or African American	22,961	27,527	28,237	28,916	693,533	41,368	1,161,066	201,477,000	551,614.0
Unknown	5,894	6,796	7,004	7,224	171,621	9,791	393,805	59,413,547	162,665.4
White	49,388	56,250	57,352	58,900	1,395,603	81,266	8,545,199	1,357,431,054	3,716,443.7
<b>LAIA with Institutional Stay 60 Days Prior with No Washout</b>									
American Indian or Alaska Native	1,229	5,366	5,546	5,634	132,523	7,872	56,922	9,357,939	25,620.6
Asian	2,543	10,421	10,834	10,980	269,014	15,397	158,755	23,507,242	64,359.3
Black or African American	37,276	164,122	170,651	173,138	4,143,322	261,201	1,173,823	211,405,709	578,797.3
Unknown	9,806	40,750	42,528	43,155	1,033,107	60,534	397,477	61,840,988	169,311.4
White	79,820	365,756	377,161	382,950	8,925,481	545,715	8,571,366	1,378,310,767	3,773,609.2

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates</b>									
American Indian or Alaska Native	223	231	244	258	6,328	354	55,169	3,287,270	9,000.1
Asian	490	524	541	559	13,019	751	154,161	8,504,972	23,285.3
Black or African American	6,512	7,049	7,208	7,379	176,452	10,446	1,126,698	77,880,225	213,224.4
Unknown	1,588	1,702	1,738	1,776	42,368	2,399	381,613	20,898,979	57,218.3
White	15,179	16,101	16,368	16,767	390,929	23,246	8,366,276	506,608,705	1,387,019.0
<b>LAIA Between Institutional Stay Admit and Discharge Dates with No Washout</b>									
American Indian or Alaska Native	539	1,256	1,290	1,323	32,477	1,960	55,602	3,369,134	9,224.2
Asian	1,160	2,415	2,512	2,558	63,950	3,667	154,977	8,671,481	23,741.2
Black or African American	16,475	40,907	42,454	43,355	1,038,539	68,108	1,140,029	80,762,695	221,116.2
Unknown	4,139	8,980	9,300	9,472	228,527	13,427	385,361	21,550,104	59,001.0
White	36,968	101,950	104,711	106,820	2,447,829	153,407	8,393,373	513,028,711	1,404,596.1
<b>LAIA Users without Institutional Stays</b>									
American Indian or Alaska Native	1,140	1,394	1,423	1,536	35,047	2,136	221,079	421,155,424	1,153,060.7
Asian	2,049	2,463	2,493	2,715	68,439	4,099	993,598	1,771,339,109	4,849,662.2
Black or African American	29,415	35,904	36,431	38,212	916,842	60,467	4,702,061	7,610,194,258	20,835,576.3
Unknown	7,323	8,543	8,715	9,346	225,367	13,683	2,720,097	4,369,531,784	11,963,126.0
White	57,257	65,376	66,369	70,744	1,680,781	106,985	34,799,457	65,901,898,493	180,429,564.7

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout</b>									
American Indian or Alaska Native	2,289	83,829	85,745	86,597	2,067,635	125,205	221,600	424,570,835	1,162,411.6
Asian	4,850	166,363	169,928	171,000	4,402,615	246,968	994,943	1,778,365,356	4,868,899.0
Black or African American	67,065	2,205,242	2,260,362	2,275,294	56,406,005	3,457,669	4,720,856	7,708,401,214	21,104,452.3
Unknown	17,880	501,623	515,331	519,295	13,264,294	751,911	2,726,423	4,392,035,429	12,024,737.7
White	131,383	4,455,380	4,556,192	4,596,064	112,622,240	6,819,128	34,832,109	66,088,611,510	180,940,757.0
<b>Dementia Among LAIA Users</b>									
American Indian or Alaska Native	62	64	66	68	1,557	94	11,880	7,850,963	21,494.8
Asian	107	112	115	116	2,776	144	81,206	56,067,095	153,503.3
Black or African American	2,277	2,431	2,456	2,493	54,779	3,568	349,315	252,826,145	692,200.3
Unknown	466	496	501	514	11,369	759	171,959	117,673,243	322,171.8
White	8,514	8,809	8,875	9,012	182,611	13,201	2,934,402	2,062,591,973	5,647,069.1
<b>Dementia Among LAIA Users with No Washout</b>									
American Indian or Alaska Native	105	1,570	1,574	1,595	34,638	1,981	11,916	7,911,759	21,661.2
Asian	183	1,720	1,745	1,754	42,697	2,263	81,267	56,154,295	153,742.1
Black or African American	3,918	47,289	48,010	48,321	1,072,981	68,806	350,767	255,030,796	698,236.3
Unknown	732	7,838	7,980	8,089	189,772	11,042	172,218	118,084,115	323,296.7
White	12,665	138,994	140,515	141,501	2,968,592	191,276	2,938,166	2,068,438,273	5,663,075.4

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Dementia</b>									
American Indian or Alaska Native	1,816	2,398	2,455	2,624	61,701	3,634	221,150	431,318,279	1,180,885.1
Asian	3,572	4,686	4,781	5,077	124,841	7,260	992,009	1,760,914,920	4,821,122.3
Black or African American	50,128	68,208	69,543	72,266	1,731,532	109,435	4,696,662	7,743,379,992	21,200,219.0
Unknown	12,988	16,470	16,876	17,810	426,262	25,131	2,715,495	4,371,442,772	11,968,358.0
White	102,058	126,704	128,933	135,433	3,234,397	196,037	34,667,381	66,520,389,525	182,122,900.8
<b>LAIA Users without Dementia with No Washout</b>									
American Indian or Alaska Native	2,577	94,121	96,370	97,341	2,323,502	140,279	221,628	435,312,304	1,191,820.1
Asian	5,458	187,679	192,041	193,360	4,949,681	278,446	993,283	1,769,098,218	4,843,526.9
Black or African American	75,979	2,507,674	2,574,301	2,593,024	64,102,357	3,935,412	4,713,972	7,859,569,724	21,518,329.2
Unknown	20,610	581,584	598,543	603,419	15,289,536	870,099	2,721,510	4,398,563,547	12,042,610.7
White	150,384	5,094,986	5,216,279	5,265,119	128,628,010	7,778,969	34,697,566	66,743,533,793	182,733,836.5



**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users</b>									
American Indian or Alaska Native	200	222	227	232	5,275	323	147,521	262,875,297	719,713.3
Asian	499	592	602	630	15,789	880	886,013	1,593,611,491	4,363,070.5
Black or African American	8,741	10,560	10,718	10,920	255,478	16,298	3,111,536	4,809,016,803	13,166,370.4
Unknown	1,595	1,857	1,878	1,922	44,362	2,753	2,126,684	3,407,503,489	9,329,236.1
White	26,652	29,899	30,207	30,809	668,095	46,141	30,222,906	57,725,280,593	158,043,204.9
<b>Age 65 and Older Among LAIA Users with No Washout</b>									
American Indian or Alaska Native	335	7,823	8,066	8,080	177,223	10,996	147,655	263,212,901	720,637.6
Asian	911	21,456	21,926	22,075	540,225	29,739	886,364	1,594,560,154	4,365,667.8
Black or African American	15,724	366,782	374,169	376,508	9,005,339	544,025	3,117,472	4,826,287,360	13,213,654.6
Unknown	2,600	52,494	53,488	54,029	1,300,996	74,271	2,127,541	3,410,045,726	9,336,196.4
White	41,607	927,742	943,978	951,138	21,540,781	1,328,970	30,235,553	57,765,142,582	158,152,341.1
<b>Age &lt;65 Among LAIA Users</b>									
American Indian or Alaska Native	1,679	2,240	2,294	2,460	57,983	3,404	93,006	176,293,945	482,666.5
Asian	3,197	4,206	4,294	4,563	111,828	6,524	141,486	223,370,524	611,555.2
Black or African American	43,896	60,079	61,281	63,839	1,530,833	96,705	1,984,620	3,187,189,334	8,726,048.8
Unknown	11,869	15,109	15,499	16,402	393,269	23,136	723,169	1,081,612,526	2,961,293.7
White	84,201	105,614	107,601	113,636	2,748,913	163,097	6,183,638	10,857,700,905	29,726,765.0

**Table 5. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Race<sup>1</sup>**

Race	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>2</sup>	Total Eligible Member-Days <sup>2</sup>	Total Eligible Member-Years <sup>2</sup>
<b>Age &lt;65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout</b>									
American Indian or Alaska Native	2,365	87,868	89,878	90,856	2,180,917	131,264	93,445	180,011,162	492,843.7
Asian	4,825	167,943	171,860	173,039	4,452,153	250,970	142,590	230,692,359	631,601.3
Black or African American	65,567	2,188,181	2,248,142	2,264,837	56,169,999	3,460,193	1,999,429	3,288,313,160	9,002,910.8
Unknown	18,859	536,928	553,035	557,479	14,178,312	806,870	728,783	1,106,601,936	3,029,711.0
White	123,167	4,306,238	4,412,816	4,455,482	110,055,821	6,641,275	6,208,689	11,046,829,484	30,244,570.8

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

<sup>2</sup>Eligible Members, Member-Days, and Member-Years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

**Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Hispanic Origin**

Hispanic Origin	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Long-acting Injectable Antipsychotics (LAIA) Users</b>									
Yes	8,903	11,456	11,752	12,397	294,043	17,680	1,282,343	2,081,143,787	5,697,861.2
No	167,549	213,412	217,224	227,089	5,394,194	333,372	40,951,779	78,835,338,892	215,839,394.6
Unknown	4,499	5,510	5,625	5,927	143,588	8,210	1,448,993	2,407,972,228	6,592,668.7
<b>LAIA Users with No Washout</b>									
Yes	13,283	397,579	409,980	413,723	10,341,110	600,863	1,285,403	2,099,366,773	5,747,753.0
No	243,222	8,074,033	8,270,835	8,342,015	204,122,458	12,397,432	41,000,933	79,195,049,162	216,824,227.7
Unknown	7,687	191,843	196,543	197,785	5,138,198	280,278	1,451,918	2,417,280,889	6,618,154.4
<b>Institutional Stays Among LAIA Users</b>									
Yes	4,595	5,562	5,726	5,938	138,886	8,054	237,808	70,891,030	194,089.1
No	91,320	108,275	110,508	113,882	2,693,085	159,685	10,305,410	3,130,751,608	8,571,530.8
Unknown	2,518	2,861	2,936	3,040	73,378	4,154	177,783	48,693,201	133,314.7
<b>Institutional Stays Among LAIA Users with No Washout</b>									
Yes	7,141	59,077	61,496	62,215	1,476,638	87,623	239,905	74,246,352	203,275.4
No	137,786	1,163,219	1,198,608	1,213,060	28,623,963	1,748,463	10,342,612	3,195,100,247	8,747,707.7
Unknown	3,989	28,722	29,696	29,998	738,376	41,607	179,224	50,365,881	137,894.3
<b>LAIA with Institutional Stay 60 Days Prior</b>									
Yes	3,812	4,462	4,600	4,743	111,415	6,417	224,631	35,430,787	97,004.2
No	74,687	86,491	88,389	90,714	2,158,310	126,497	9,920,721	1,590,882,132	4,355,597.9
Unknown	2,082	2,334	2,404	2,481	60,206	3,373	169,174	23,982,760	65,661.2
<b>LAIA with Institutional Stay 60 Days Prior with No Washout</b>									
Yes	6,336	27,593	28,863	29,294	694,239	41,257	226,854	37,071,733	101,496.9
No	120,868	545,665	564,192	572,702	13,470,340	830,185	9,960,866	1,622,581,657	4,442,386.5

**Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Hispanic Origin**

Hispanic Origin	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
Unknown	3,470	13,157	13,665	13,861	338,868	19,277	170,623	24,769,255	67,814.5
<b>Long-acting Injectable Antipsychotics (LAIA) Between Institutional Stay Admit and Discharge Dates</b>									
Yes	1,045	1,129	1,152	1,180	27,747	1,583	217,360	12,509,776	34,249.9
No	22,404	23,905	24,361	24,963	586,728	34,796	9,702,304	596,281,172	1,632,528.9
Unknown	543	573	586	596	14,621	816	164,253	8,389,203	22,968.4
<b>LAIA Between Institutional Stay Admit and Discharge Dates with No Washout</b>									
Yes	2,759	6,142	6,376	6,506	155,448	9,182	219,670	12,957,847	35,476.7
No	55,142	146,528	150,967	154,056	3,582,795	227,141	9,743,981	605,832,021	1,658,677.7
Unknown	1,380	2,838	2,924	2,966	73,079	4,245	165,691	8,592,257	23,524.3
<b>LAIA Users without Institutional Stays</b>									
Yes	5,030	5,894	6,026	6,459	155,157	9,626	1,275,594	2,010,252,757	5,503,772.1
No	89,861	105,137	106,716	113,207	2,701,109	173,687	40,716,195	75,704,587,284	207,267,863.9
Unknown	2,293	2,649	2,689	2,887	70,210	4,057	1,444,503	2,359,279,027	6,459,353.9
<b>LAIA Users without Institutional Stays with No Washout</b>									
Yes	11,343	338,502	348,484	351,508	8,864,472	513,240	1,278,872	2,025,120,421	5,544,477.5
No	205,587	6,910,814	7,072,227	7,128,955	175,498,495	10,648,969	40,769,508	75,999,948,915	208,076,520.0
Unknown	6,537	163,121	166,847	167,787	4,399,822	238,671	1,447,551	2,366,915,008	6,480,260.1
<b>Dementia Among LAIA Users</b>									
Yes	346	369	373	385	8,452	554	108,374	75,582,332	206,933.1
No	10,960	11,416	11,512	11,689	241,723	17,006	3,376,803	2,379,336,176	6,514,267.4
Unknown	120	127	128	129	2,917	205	63,585	42,090,911	115,238.6
<b>Dementia Among LAIA Users with No Washout</b>									
Yes	532	5,660	5,723	5,823	136,053	7,938	108,559	75,884,901	207,761.5

**Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Hispanic Origin**

Hispanic Origin	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
No	16,871	189,573	191,844	193,171	4,118,908	264,325	3,382,116	2,387,535,123	6,536,714.9
Unknown	200	2,178	2,257	2,266	53,719	3,104	63,659	42,199,214	115,535.2
<b>Long-acting Injectable Antipsychotics (LAIA) Users without Dementia</b>									
Yes	8,596	11,087	11,379	12,012	285,591	17,125	1,271,715	2,005,561,455	5,490,928.0
No	157,574	201,996	205,712	215,400	5,152,471	316,365	40,577,202	76,456,002,716	209,325,127.2
Unknown	4,392	5,383	5,497	5,798	140,671	8,005	1,443,780	2,365,881,317	6,477,430.0
<b>LAIA Users without Dementia with No Washout</b>									
Yes	13,006	391,919	404,257	407,900	10,205,057	592,925	1,274,794	2,023,481,872	5,539,991.4
No	234,398	7,884,460	8,078,991	8,148,844	200,003,550	12,133,106	40,626,449	76,807,514,039	210,287,512.8
Unknown	7,604	189,665	194,286	195,519	5,084,479	277,174	1,446,716	2,375,081,675	6,502,619.2
<b>Age 65 and Older Among LAIA Users</b>									
Yes	1,053	1,225	1,240	1,268	29,012	1,802	875,468	1,334,982,316	3,654,982.4
No	36,092	41,273	41,754	42,591	944,637	63,641	34,367,976	64,390,784,184	176,292,359.2
Unknown	542	632	638	654	15,350	951	1,251,216	2,072,521,173	5,674,253.7
<b>Age 65 and Older Among LAIA Users with No Washout</b>									
Yes	1,679	32,436	32,982	33,376	799,626	45,651	876,013	1,336,540,815	3,659,249.3
No	58,577	1,323,803	1,348,139	1,357,801	31,263,568	1,913,729	34,387,044	64,449,202,997	176,452,301.2
Unknown	921	20,058	20,506	20,653	501,370	28,620	1,251,528	2,073,504,911	5,676,947.1
<b>Age &lt;65 Among LAIA Users</b>									
Yes	7,893	10,231	10,512	11,129	265,031	15,877	479,431	746,161,471	2,042,878.8
No	132,973	172,139	175,470	184,498	4,449,557	269,731	8,402,750	14,444,554,708	39,547,035.5
Unknown	3,976	4,878	4,987	5,273	128,238	7,259	243,738	335,451,055	918,414.9

**Table 6. Summary of Exposures of Interest in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021, by Hispanic Origin**

Hispanic Origin	Number of Patients	Number of Index Dates	Number of Index Date Defining-Dispensings (Adjusted for Same-Day Dispensings)	Number of Index Date Defining-Dispensings (Not Adjusted for Same-Day Dispensings)	Total Days Supply in Index Date Defining-Records	Total Amount Supplied in Index Date Defining-Records	Number of Eligible Members <sup>1</sup>	Total Eligible Member-Days <sup>1</sup>	Total Eligible Member-Years <sup>1</sup>
<b>Age &lt;65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout</b>									
Yes	11,931	365,143	376,998	380,347	9,541,484	555,212	482,265	762,825,958	2,088,503.6
No	195,924	6,750,230	6,922,696	6,984,214	172,858,890	10,483,703	8,444,153	14,745,846,165	40,371,926.5
Unknown	6,928	171,785	176,037	177,132	4,636,828	251,658	246,518	343,775,978	941,207.3

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

**Table 7a. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	95,894	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	70,786	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	44,797	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,551	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	3,313	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,705	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,641	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,960	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	643	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	224	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	200	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	133	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	101	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	100	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	62	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	46	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	37	OA
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	34	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	22	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	18	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	17	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	11	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7a. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV



**Table 7a. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED

\*\*\*\*\*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 7b. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	96,267
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	71,160
Risperidone microspheres	Risperidone microspheres	RX	N/A	44,973
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	9,663
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	4,768
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	4,246
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	69
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	34

\*\*\*\*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 7c. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,299,259	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,378,052	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,356,992	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	272,130	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	193,395	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	114,317	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	7,755	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,402	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,810	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	4,481	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	4,386	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	4,273	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	4,242	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,782	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,142	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,417	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	1,038	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	964	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	895	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	445	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	284	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	264	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	244	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	218	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	212	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	188	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA

**Table 7c. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	118	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	74	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	72	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	68	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	56	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	50	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	44	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	43	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	34	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	33	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	26	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	24	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	23	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	20	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	16	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	16	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	14	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	14	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	11	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	11	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7c. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres J2426	Risperidone microspheres Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A AV
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J2426 J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres C9037	Risperidone microspheres Injection, risperidone (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX RX	HC N/A	*****	OA N/A
Haloperidol decanoate	Haloperidol decanoate				
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	OA OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres J2798	Risperidone microspheres Injection, risperidone, (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres J1631 J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV OA

**Table 7c. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426 J2426	Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	ED AV
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A ED
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
J1631 C9255	Injection, haloperidol decanoate, per 50 mg Injection, paliperidone palmitate, 1 mg	PX PX	HC HC	*****	ED ED
Risperidone microspheres C9255	Risperidone microspheres Injection, paliperidone palmitate, 1 mg	RX PX	N/A HC	*****	N/A AV
J2426 J1631 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX PX PX	HC HC HC	*****	AV AV OA
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	OA AV
J2794 J1631	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	ED AV
Risperidone microspheres Paliperidone palmitate J1631	Risperidone microspheres Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX RX PX	N/A N/A HC	*****	N/A N/A AV
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	AV OA
J2794 J1631	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	OA OA
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A ED ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A

**Table 7c. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	ED

\*\*\*\*\*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 7d. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,309,449
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,385,024
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,369,008
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	294,316
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	203,921
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	124,208
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	1,081
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	76
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	49

\*\*\*\*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 7e. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	49,095	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	35,448	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	24,358	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,203	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,505	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	1,237	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,158	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	833	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	333	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	118	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	97	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	66	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	57	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	40	OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	32	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	24	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	16	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	15	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA

**Table 7e. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV

\*\*\*\*\*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 7f. Total Code Counts of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	49,305
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	35,648
Risperidone microspheres	Risperidone microspheres	RX	N/A	24,457
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	3,619
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,080
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,985
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****

\*\*\*\*\*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 7g. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	503,451	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	342,086	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	330,898	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	26,781	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	20,139	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	15,319	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	3,407	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,926	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,147	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	919	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	915	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	807	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	749	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	676	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	423	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	312	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	222	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	183	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	143	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	55	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	54	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	53	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	46	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	44	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	37	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	27	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7g. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	22	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	21	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	21	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	21	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	14	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV

**Table 7g. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
	Injection, haloperidol decanoate, per 50 mg				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
	1 mg				
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
Haloperidol decanoate	1 mg	RX	N/A		N/A
	Haloperidol decanoate				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
J2426	1 mg	PX	HC		AV
	Injection, paliperidone palmitate extended release,				
	1 mg				

**Table 7g. Full Code Distribution of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	ED

\*\*\*\*\*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 7h. Total Code Counts of Institutional Stays Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	505,507
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	344,146
Risperidone microspheres	Risperidone microspheres	RX	N/A	332,160
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	32,206
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	23,036
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	17,880
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****

\*\*\*\*\*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 7i. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	39,996	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	27,995	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	19,399	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	1,643	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,219	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	957	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	864	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	566	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	234	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	95	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	77	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	55	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	52	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	25	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	23	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	18	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	13	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7i. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV

\*\*\*\*\*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 7j. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	40,167
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	28,155
Risperidone microspheres	Risperidone microspheres	RX	N/A	19,480
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,642
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,602
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,568
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****

\*\*\*\*\*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 7k. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	231,389	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	165,021	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	157,949	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	10,915	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	8,278	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	6,185	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,098	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,231	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	647	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	482	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	383	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	372	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	325	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	322	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	189	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	164	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	114	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	85	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	41	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	23	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	23	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	22	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	20	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	19	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	15	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	13	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	12	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7k. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	12	N/A OA
Paliperidone palmitate J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres J2794	Risperidone microspheres Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate J2426	Haloperidol decanoate Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7k. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
Haloperidol decanoate	1 mg	RX	N/A		N/A
	Haloperidol decanoate				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	AV
Haloperidol decanoate	1 mg	RX	N/A		N/A
	Haloperidol decanoate				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
J2426	1 mg	PX	HC		AV
	Injection, paliperidone palmitate extended release,				
	1 mg				
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release,	PX	HC		ED
	1 mg				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
	1 mg				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA

**Table 7k. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres Paliperidone palmitate J2794	Risperidone microspheres Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX RX PX	N/A N/A HC	*****	N/A N/A ED
Risperidone microspheres Paliperidone palmitate J2794	Risperidone microspheres Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX RX PX	N/A N/A HC	*****	N/A N/A AV

\*\*\*\*\*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 7I. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users with Institutional Stays 60 Days Prior with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	232,420
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	166,061
Risperidone microspheres	Risperidone microspheres	RX	N/A	158,619
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	13,880
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	9,950
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	7,428
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****

\*\*\*\*\*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 7m. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	10,292	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	8,267	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	6,411	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	150	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	149	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	128	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	99	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	57	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	17	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	13	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A

\*\*\*\*\*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 7n. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	10,311
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	8,296
Risperidone microspheres	Risperidone microspheres	RX	N/A	6,424
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	306
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	230
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****

\*\*\*\*\*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 7o. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	53,240	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	51,249	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	48,223	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	946	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	668	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	384	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	253	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	211	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	108	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	73	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	33	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	26	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	25	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	23	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	13	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA

**Table 7o. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
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\*\*\*\*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 7p. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users Between Institutional Stay Admit and Discharge Dates with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	53,389
Risperidone microspheres	Risperidone microspheres	RX	N/A	51,376
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	48,417
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	1,243
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	913
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****

\*\*\*\*\*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 7q. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	46,799	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	35,338	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	20,439	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	4,348	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,808	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,483	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	1,468	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,127	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	310	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	106	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	103	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	93	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	43	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	35	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	32	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	30	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	22	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	21	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	17	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7q. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A ED
Paliperidone palmitate J2794 C9255	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, paliperidone palmitate, 1 mg	RX PX PX	N/A HC HC	***** *****	N/A AV ED
J2426 J2426	Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	AV OA
Risperidone microspheres J2794	Risperidone microspheres Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	ED ED
J1631 J1631	Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	AV OA
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	AV AV
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A ED ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2426 Haloperidol decanoate	Injection, paliperidone palmitate extended release, 1 mg Haloperidol decanoate	PX RX	HC N/A	*****	AV N/A
J2794 Haloperidol decanoate	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Haloperidol decanoate	PX RX	HC N/A	*****	AV N/A
J2794 J2426	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	ED ED
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A ED

\*\*\*\*\*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 7r. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	46,962
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	35,512
Risperidone microspheres	Risperidone microspheres	RX	N/A	20,516
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,044
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,688
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,261
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	32
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	32

\*\*\*\*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 7s. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	2,795,808	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,047,154	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,014,906	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	245,349	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	173,256	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	98,998	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,483	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,061	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	4,348	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	3,597	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,471	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,435	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,555	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,719	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,635	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,105	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	821	OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	816	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	712	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	391	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	235	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	231	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	209	AV
J1631	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	191	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	175	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	142	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA

**Table 7s. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	74	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	65	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	60	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	53	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	44	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	36	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	35	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	28	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	22	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	21	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	20	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	19	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	15	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	12	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	11	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7s. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres J2426	Risperidone microspheres Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A AV
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Paliperidone palmitate J2426 J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Risperidone microspheres C9037	Risperidone microspheres Injection, risperidone (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
J2794 J1631	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	AV AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426 Haloperidol decanoate	Injection, paliperidone palmitate extended release, 1 mg Haloperidol decanoate	PX RX	HC N/A	*****	OA N/A
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres J2798	Risperidone microspheres Injection, risperidone, (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
J1631 J1631	Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	ED AV
Risperidone microspheres J1631 J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
J2794 J2426	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	ED ED
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
Risperidone microspheres C9255	Risperidone microspheres Injection, paliperidone palmitate, 1 mg	RX PX	N/A HC	*****	N/A AV
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED

**Table 7s. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	AV
J1631	1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		AV
	Injection, haloperidol decanoate, per 50 mg				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	AV
J1631	1 mg	PX	HC		OA
	Injection, haloperidol decanoate, per 50 mg				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		ED
J1631	1 mg	PX	HC		ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
Haloperidol decanoate	1 mg Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
J2426	1 mg	PX	HC		AV
	Injection, paliperidone palmitate extended release, 1 mg				

**Table 7s. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED

\*\*\*\*\*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 7t. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Institutional Stays with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	2,803,942
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,052,864
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,024,862
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	262,110
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	180,885
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	106,328
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	847
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	68
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	49

\*\*\*\*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 7u. Full Code Distribution of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres	Risperidone microspheres	RX	N/A	5,585	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	4,015	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	1,819	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	170	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	126	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	88	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	49	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	27	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	*****	N/A
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV

\*\*\*\*\*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 7v. Total Code Counts of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Risperidone microspheres	Risperidone microspheres	RX	N/A	5,593
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	4,028
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	1,820
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	225
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	221
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****

\*\*\*\*\*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 7w. Full Code Distribution of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres	Risperidone microspheres	RX	N/A	105,153	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	48,862	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	38,108	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,041	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,944	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	524	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	217	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	179	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	71	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	57	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	47	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	44	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	34	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	21	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	20	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	20	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	16	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA

**Table 7w. Full Code Distribution of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA

\*\*\*\*\*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 7x. Total Code Counts of Dementia Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Risperidone microspheres	Risperidone microspheres	RX	N/A	105,275
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	48,983
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	38,151
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,338
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,262
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	572
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****

\*\*\*\*\*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 7y. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	94,075	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	66,771	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	39,212	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,463	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	3,286	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,592	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,579	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,790	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	635	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	224	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	197	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	126	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	100	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	99	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	61	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	39	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	36	OA
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	32	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	22	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	18	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	16	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	11	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7y. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV

**Table 7y. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED

\*\*\*\*\*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 7z. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	94,447
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	67,132
Risperidone microspheres	Risperidone microspheres	RX	N/A	39,380
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	9,438
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	4,547
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	4,210
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	68
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	32

\*\*\*\*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 7aa. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,261,151	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,308,130	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,272,899	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	270,089	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	191,451	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	113,793	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	7,576	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,331	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,776	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	4,366	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	4,264	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	4,232	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	4,229	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,761	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,126	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,360	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	1,018	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	917	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	884	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	445	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	283	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	264	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	244	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	212	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	209	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	187	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA



**Table 7aa. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	115	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	69	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	68	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	63	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	54	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	50	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	44	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	43	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	34	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	33	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	26	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	23	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	22	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	20	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	16	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	16	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	14	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	14	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	11	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	11	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7aa. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres J2426	Risperidone microspheres Injection, paliperidone palmitate extended release, 1 mg	RX PX	N/A HC	*****	N/A AV
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J2426 J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres C9037	Risperidone microspheres Injection, risperidone (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX RX	HC N/A	*****	OA N/A
Haloperidol decanoate	Haloperidol decanoate				
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	OA OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres J2798	Risperidone microspheres Injection, risperidone, (Perseris), 0.5 mg	RX PX	N/A HC	*****	N/A AV
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres J1631 J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV OA

**Table 7aa. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426 J2426	Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	ED AV
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A ED
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
J1631 C9255	Injection, haloperidol decanoate, per 50 mg Injection, paliperidone palmitate, 1 mg	PX PX	HC HC	*****	ED ED
Risperidone microspheres C9255	Risperidone microspheres Injection, paliperidone palmitate, 1 mg	RX PX	N/A HC	*****	N/A AV
J2426 J1631 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX PX PX	HC HC HC	*****	AV AV OA
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	OA AV
J2794 J1631	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	ED AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC		N/A AV
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	AV OA
J2794 J1631	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	OA OA
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A ED ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A

**Table 7aa. Full Code Distribution of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	ED

\*\*\*\*\*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 7ab. Total Code Counts of Long-acting Injectable Antipsychotics (LAIA) Users without Dementia with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,271,298
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	2,320,025
Risperidone microspheres	Risperidone microspheres	RX	N/A	2,279,749
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	291,978
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	201,659
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	123,636
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	1,061
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	67
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	49

\*\*\*\*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 7ac. Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	16,158	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15,115	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	9,062	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	893	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	528	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	509	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	388	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	304	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	50	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	23	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	15	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	14	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	14	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	1 mg	PX	HC		ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA

**Table 7ac. Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	16,158	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15,115	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	9,062	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	893	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	528	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	509	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	388	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	304	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	50	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	23	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	15	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	15	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	14	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	14	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED

\*\*\*\*\*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 7ad. Total Code Counts of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	16,197
Risperidone microspheres	Risperidone microspheres	RX	N/A	15,148
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	9,089
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	1,448
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	938
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	375
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****

\*\*\*\*\*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 7ae. Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres	Risperidone microspheres	RX	N/A	545,398	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	435,135	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	327,020	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	29,931	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	22,997	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	10,070	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	966	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	839	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	659	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	642	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	588	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	400	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	288	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	285	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	274	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	216	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	195	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	69	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	65	AV
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	39	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	27	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	26	AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	25	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	19	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	17	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	15	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	13	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	12	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7ae. Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				

**Table 7ae. Full Code Distribution of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
	Haloperidol decanoate				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
J2426	1 mg	PX	HC		AV
	Injection, paliperidone palmitate extended release,				
	1 mg				
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV

\*\*\*\*\*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 7af. Total Code Counts of Age 65 and Older Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Risperidone microspheres	Risperidone microspheres	RX	N/A	546,389
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	436,381
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	327,837
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	32,291
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	24,719
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	11,004
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	67
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	42
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	31

\*\*\*\*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 7ag. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	86,832	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	54,628	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	29,682	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,658	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	3,009	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	2,253	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	2,196	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	1,432	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	593	ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	210	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	185	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	110	OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	94	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	85	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	60	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	35	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	32	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	20	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2798	Injection, risperidone, (Perseis), 0.5 mg	PX	HC	20	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	17	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	13	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	11	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	11	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	*****	ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV

**Table 7ag. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	ED
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED

\*\*\*\*\*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 7ah. Total Code Counts of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	87,178
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	54,963
Risperidone microspheres	Risperidone microspheres	RX	N/A	29,825
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	8,215
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	3,871
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	3,830
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	67
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	20

\*\*\*\*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 7ai. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	2,972,239	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	1,921,857	N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,832,654	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	242,199	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	170,398	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	104,247	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	6,789	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,743	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	5,168	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	4,112	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	3,842	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	3,685	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	3,642	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	2,494	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	1,947	OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,132	N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	973	AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	826	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	748	OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	438	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	272	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	260	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	236	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	204	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	199	OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	161	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA



**Table 7ai. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	103	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	57	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	46	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	43	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	43	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	38	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		ED
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	34	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	33	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	31	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	26	AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	21	AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	20	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	19	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	18	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	16	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	15	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	14	AV
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	14	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	11	AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV

**Table 7ai. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Paliperidone palmitate C9255	Paliperidone palmitate Injection, paliperidone palmitate, 1 mg	RX PX	N/A HC	*****	N/A AV
Paliperidone palmitate J2426 J1631	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV AV
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J2426 J2426	Paliperidone palmitate Injection, paliperidone palmitate extended release, 1 mg Injection, paliperidone palmitate extended release, 1 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
J2426 Haloperidol decanoate	Injection, paliperidone palmitate extended release, 1 mg Haloperidol decanoate	PX RX	HC N/A	*****	OA N/A
J1631 J1631	Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	PX PX	HC HC	*****	ED AV
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	AV AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
J2794 J2426	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	ED ED
Risperidone microspheres J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A ED
Risperidone microspheres J1631 J1631	Risperidone microspheres Injection, haloperidol decanoate, per 50 mg Injection, haloperidol decanoate, per 50 mg	RX PX PX	N/A HC HC	*****	N/A AV OA
Paliperidone palmitate J1631	Paliperidone palmitate Injection, haloperidol decanoate, per 50 mg	RX PX	N/A HC	*****	N/A OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
J2426 J1631	Injection, paliperidone palmitate extended release, 1 mg	PX PX	HC HC	*****	OA OA
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A ED
Paliperidone palmitate J2794	Paliperidone palmitate Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	RX PX	N/A HC	*****	N/A OA
J1631 C9255	Injection, haloperidol decanoate, per 50 mg Injection, paliperidone palmitate, 1 mg	PX PX	HC HC	*****	ED ED

**Table 7ai. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	AV
J1631	1 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	OA
J1631	1 mg	PX	HC		AV
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	AV
J1631	1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	*****	AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		OA
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC		AV
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
J1631	1 mg	PX	HC		AV
Haloperidol decanoate	Injection, haloperidol decanoate, per 50 mg	RX	N/A		N/A
J2426	Haloperidol decanoate				
J2426	Injection, paliperidone palmitate extended release,	PX	HC	*****	ED
Haloperidol decanoate	1 mg	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	*****	N/A
J2426	Injection, paliperidone palmitate extended release,	PX	HC		AV
Haloperidol decanoate	1 mg	RX	N/A		N/A
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
Haloperidol decanoate	Haloperidol decanoate	RX	N/A		N/A

**Table 7ai. Full Code Distribution of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts	Encounter Care Setting
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		AV
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	*****	ED
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	OA
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC		OA
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	*****	ED
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		AV
Risperidone microspheres	Risperidone microspheres	RX	N/A	*****	N/A
Paliperidone palmitate	Paliperidone palmitate	RX	N/A		N/A
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC		ED
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	*****	ED

\*\*\*\*\*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 7aj. Total Code Counts of Age Under 65 Among Long-acting Injectable Antipsychotics (LAIA) Users with No Washout in the Sentinel Distributed Database (SDD) from January 1, 2010 to December 31, 2021**

Code	Code Description	Code Category	Code Type	Overall Counts
Paliperidone palmitate	Paliperidone palmitate	RX	N/A	2,981,612
Haloperidol decanoate	Haloperidol decanoate	RX	N/A	1,932,627
Risperidone microspheres	Risperidone microspheres	RX	N/A	1,838,635
J1631	Injection, haloperidol decanoate, per 50 mg	PX	HC	262,025
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	PX	HC	179,202
J2426	Injection, paliperidone palmitate extended release, 1 mg	PX	HC	113,204
C9255	Injection, paliperidone palmitate, 1 mg	PX	HC	1,014
J2798	Injection, risperidone, (Perseris), 0.5 mg	PX	HC	34
C9037	Injection, risperidone (Perseris), 0.5 mg	PX	HC	18

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

**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (September 27, 2022)**

DP ID <sup>1</sup>	DP Start Date	DP End Date <sup>2</sup>
DP01	01/01/2010	12/31/2021

<sup>1</sup>End 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 Generic and Brand Names of Medical Products Used to Define Exposures in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
<b>Haloperidol</b>	
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	haloperidol decanoate
<b>Paliperidone</b>	
paliperidone palmitate	Invega Hafyera
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
<b>Risperidone</b>	
risperidone microspheres	Risperdal Consta

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Haloperidol</b>			
J1631	Injection, haloperidol decanoate, per 50 mg	Procedure	HCPCS
<b>Paliperidone</b>			
C9255	Injection, paliperidone palmitate, 1 mg	Procedure	HCPCS
J2426	Injection, paliperidone palmitate extended release, 1 mg	Procedure	HCPCS
<b>Risperidone</b>			
C9037	Injection, risperidone (Perseris), 0.5 mg	Procedure	HCPCS
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	Procedure	HCPCS
J2798	Injection, risperidone, (Perseris), 0.5 mg	Procedure	HCPCS



**Appendix D. List of Generic and Brand Names of Medical Products Used to Define Exposure Incidence Criteria in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
<b>Haloperidol</b>	
haloperidol decanoate	Haldol Decanoate
haloperidol decanoate	haloperidol decanoate
<b>Paliperidone</b>	
paliperidone palmitate	Invega Hafyera
paliperidone palmitate	Invega Sustenna
paliperidone palmitate	Invega Trinza
<b>Risperidone</b>	
risperidone microspheres	Risperdal Consta
<b>Other Long-acting Injectable Antipsychotic (LAIA)</b>	
aripiprazole	Abilify Maintena
aripiprazole lauroxil	Aristada
aripiprazole lauroxil, submicronized	Aristada Initio
fluphenazine decanoate	fluphenazine decanoate
olanzapine pamoate	Zyprexa Relprevv

**Appendix E. List of Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Exposure Incidence Criteria in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
<b>Haloperidol</b>			
J1631	Injection, haloperidol decanoate, per 50 mg	Procedure	HCPCS
<b>Paliperidone</b>			
C9255	Injection, paliperidone palmitate, 1 mg	Procedure	HCPCS
J2426	Injection, paliperidone palmitate extended release, 1 mg	Procedure	HCPCS
<b>Risperidone</b>			
C9037	Injection, risperidone (Perseris), 0.5 mg	Procedure	HCPCS
J2794	Injection, risperidone (RISPERDAL CONSTA), 0.5 mg	Procedure	HCPCS
J2798	Injection, risperidone, (Perseris), 0.5 mg	Procedure	HCPCS
<b>Other Long-acting Injectable Antipsychotic (LAIA)</b>			
C9035	Injection, aripiprazole lauroxil (Aristada Initio), 1 mg	Procedure	HCPCS
C9470	Injection, aripiprazole lauroxil, 1 mg	Procedure	HCPCS
J0401	Injection, aripiprazole, extended release, 1 mg	Procedure	HCPCS
J1942	Injection, aripiprazole lauroxil, 1 mg	Procedure	HCPCS
J1943	Injection, aripiprazole lauroxil, (Aristada Initio), 1 mg	Procedure	HCPCS
J1944	Injection, aripiprazole lauroxil, (Aristada), 1 mg	Procedure	HCPCS
J2358	Injection, olanzapine, long-acting, 1 mg	Procedure	HCPCS
J2680	Injection, fluphenazine decanoate, up to 25 mg	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
<b>Substance Abuse</b>			
291.0	Alcohol withdrawal delirium	Diagnosis	ICD-9-CM
291.1	Alcohol-induced persisting amnesic disorder	Diagnosis	ICD-9-CM
291.2	Alcohol-induced persisting dementia	Diagnosis	ICD-9-CM
291.3	Alcohol-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM
291.4	Idiosyncratic alcohol intoxication	Diagnosis	ICD-9-CM
291.5	Alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM
291.8	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
291.81	Alcohol withdrawal	Diagnosis	ICD-9-CM
291.82	Alcohol induced sleep disorders	Diagnosis	ICD-9-CM
291.89	Other specified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
291.9	Unspecified alcohol-induced mental disorders	Diagnosis	ICD-9-CM
292.0	Drug withdrawal	Diagnosis	ICD-9-CM
292.11	Drug-induced psychotic disorder with delusions	Diagnosis	ICD-9-CM
292.12	Drug-induced psychotic disorder with hallucinations	Diagnosis	ICD-9-CM
292.2	Pathological drug intoxication	Diagnosis	ICD-9-CM
292.81	Drug-induced delirium	Diagnosis	ICD-9-CM
292.82	Drug-induced persisting dementia	Diagnosis	ICD-9-CM
292.83	Drug-induced persisting amnesic disorder	Diagnosis	ICD-9-CM
292.84	Drug-induced mood disorder	Diagnosis	ICD-9-CM
292.85	Drug induced sleep disorders	Diagnosis	ICD-9-CM
292.89	Other specified drug-induced mental disorder	Diagnosis	ICD-9-CM
292.9	Unspecified drug-induced mental disorder	Diagnosis	ICD-9-CM
303.00	Acute alcoholic intoxication, unspecified	Diagnosis	ICD-9-CM
303.01	Acute alcoholic intoxication, continuous	Diagnosis	ICD-9-CM
303.02	Acute alcoholic intoxication, episodic	Diagnosis	ICD-9-CM
303.90	Other and unspecified alcohol dependence, unspecified	Diagnosis	ICD-9-CM
303.91	Other and unspecified alcohol dependence, continuous	Diagnosis	ICD-9-CM
303.92	Other and unspecified alcohol dependence, episodic	Diagnosis	ICD-9-CM
304.00	Opioid type dependence, unspecified	Diagnosis	ICD-9-CM
304.01	Opioid type dependence, continuous	Diagnosis	ICD-9-CM
304.02	Opioid type dependence, episodic	Diagnosis	ICD-9-CM
304.10	Sedative, hypnotic or anxiolytic dependence, unspecified	Diagnosis	ICD-9-CM
304.11	Sedative, hypnotic or anxiolytic dependence, continuous	Diagnosis	ICD-9-CM
304.12	Sedative, hypnotic or anxiolytic dependence, episodic	Diagnosis	ICD-9-CM
304.2	Cocaine dependence	Diagnosis	ICD-9-CM
304.20	Cocaine dependence, unspecified	Diagnosis	ICD-9-CM
304.21	Cocaine dependence, continuous	Diagnosis	ICD-9-CM
304.22	Cocaine dependence, episodic	Diagnosis	ICD-9-CM
304.3	Cannabis dependence	Diagnosis	ICD-9-CM
304.30	Cannabis dependence, unspecified	Diagnosis	ICD-9-CM
304.31	Cannabis dependence, continuous	Diagnosis	ICD-9-CM
304.32	Cannabis dependence, episodic	Diagnosis	ICD-9-CM
304.4	Amphetamine and other psychostimulant dependence	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
304.40	Amphetamine and other psychostimulant dependence, unspecified	Diagnosis	ICD-9-CM
304.41	Amphetamine and other psychostimulant dependence, continuous	Diagnosis	ICD-9-CM
304.42	Amphetamine and other psychostimulant dependence, episodic	Diagnosis	ICD-9-CM
304.5	Hallucinogen dependence	Diagnosis	ICD-9-CM
304.50	Hallucinogen dependence, unspecified	Diagnosis	ICD-9-CM
304.51	Hallucinogen dependence, continuous	Diagnosis	ICD-9-CM
304.52	Hallucinogen dependence, episodic	Diagnosis	ICD-9-CM
304.6	Other specified drug dependence	Diagnosis	ICD-9-CM
304.60	Other specified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.61	Other specified drug dependence, continuous	Diagnosis	ICD-9-CM
304.62	Other specified drug dependence, episodic	Diagnosis	ICD-9-CM
304.7	Combinations of opioid type drug with any other drug dependence	Diagnosis	ICD-9-CM
304.70	Combinations of opioid type drug with any other drug dependence, unspecified	Diagnosis	ICD-9-CM
304.71	Combinations of opioid type drug with any other drug dependence, continuous	Diagnosis	ICD-9-CM
304.72	Combinations of opioid type drug with any other drug dependence, episodic	Diagnosis	ICD-9-CM
304.8	Combinations of drug dependence excluding opioid type drug	Diagnosis	ICD-9-CM
304.80	Combinations of drug dependence excluding opioid type drug,	Diagnosis	ICD-9-CM
304.81	Combinations of drug dependence excluding opioid type drug, continuous	Diagnosis	ICD-9-CM
304.82	Combinations of drug dependence excluding opioid type drug, episodic	Diagnosis	ICD-9-CM
304.9	Unspecified drug dependence	Diagnosis	ICD-9-CM
304.90	Unspecified drug dependence, unspecified	Diagnosis	ICD-9-CM
304.91	Unspecified drug dependence, continuous	Diagnosis	ICD-9-CM
304.92	Unspecified drug dependence, episodic	Diagnosis	ICD-9-CM
305.00	Nondependent alcohol abuse, unspecified	Diagnosis	ICD-9-CM
305.01	Nondependent alcohol abuse, continuous	Diagnosis	ICD-9-CM
305.02	Nondependent alcohol abuse, episodic	Diagnosis	ICD-9-CM
305.2	Nondependent cannabis abuse	Diagnosis	ICD-9-CM
305.20	Nondependent cannabis abuse, unspecified	Diagnosis	ICD-9-CM
305.21	Nondependent cannabis abuse, continuous	Diagnosis	ICD-9-CM
305.22	Nondependent cannabis abuse, episodic	Diagnosis	ICD-9-CM
305.3	Nondependent hallucinogen abuse	Diagnosis	ICD-9-CM
305.30	Nondependent hallucinogen abuse, unspecified	Diagnosis	ICD-9-CM
305.31	Nondependent hallucinogen abuse, continuous	Diagnosis	ICD-9-CM
305.32	Nondependent hallucinogen abuse, episodic	Diagnosis	ICD-9-CM
305.4	Nondependent sedative, hypnotic or anxiolytic abuse	Diagnosis	ICD-9-CM
305.40	Nondependent sedative, hypnotic or anxiolytic abuse, unspecified	Diagnosis	ICD-9-CM
305.41	Nondependent sedative hypnotic or anxiolytic abuse, continuous	Diagnosis	ICD-9-CM
305.42	Nondependent sedative, hypnotic or anxiolytic abuse, episodic	Diagnosis	ICD-9-CM
305.5	Nondependent opioid abuse	Diagnosis	ICD-9-CM
305.50	Nondependent opioid abuse, unspecified	Diagnosis	ICD-9-CM
305.51	Nondependent opioid abuse, continuous	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
305.52	Nondependent opioid abuse, episodic	Diagnosis	ICD-9-CM
305.6	Nondependent cocaine abuse	Diagnosis	ICD-9-CM
305.60	Nondependent cocaine abuse, unspecified	Diagnosis	ICD-9-CM
305.61	Nondependent cocaine abuse, continuous	Diagnosis	ICD-9-CM
305.62	Nondependent cocaine abuse, episodic	Diagnosis	ICD-9-CM
305.7	Nondependent amphetamine or related acting sympathomimetic abuse	Diagnosis	ICD-9-CM
305.70	Nondependent amphetamine or related acting sympathomimetic abuse, unspecified	Diagnosis	ICD-9-CM
305.71	Nondependent amphetamine or related acting sympathomimetic abuse, continuous	Diagnosis	ICD-9-CM
305.72	Nondependent amphetamine or related acting sympathomimetic abuse, episodic	Diagnosis	ICD-9-CM
305.8	Nondependent antidepressant type abuse	Diagnosis	ICD-9-CM
305.80	Nondependent antidepressant type abuse, unspecified	Diagnosis	ICD-9-CM
305.81	Nondependent antidepressant type abuse, continuous	Diagnosis	ICD-9-CM
305.82	Nondependent antidepressant type abuse, episodic	Diagnosis	ICD-9-CM
305.9	Other, mixed, or unspecified nondependent drug abuse	Diagnosis	ICD-9-CM
305.90	Other, mixed, or unspecified nondependent drug abuse, unspecified	Diagnosis	ICD-9-CM
305.91	Other, mixed, or unspecified nondependent drug abuse, continuous	Diagnosis	ICD-9-CM
305.92	Other, mixed, or unspecified nondependent drug abuse, episodic	Diagnosis	ICD-9-CM
357.5	Alcoholic polyneuropathy	Diagnosis	ICD-9-CM
425.5	Alcoholic cardiomyopathy	Diagnosis	ICD-9-CM
535.30	Alcoholic gastritis without mention of hemorrhage	Diagnosis	ICD-9-CM
535.31	Alcoholic gastritis with hemorrhage	Diagnosis	ICD-9-CM
571.0	Alcoholic fatty liver	Diagnosis	ICD-9-CM
571.1	Acute alcoholic hepatitis	Diagnosis	ICD-9-CM
571.2	Alcoholic cirrhosis of liver	Diagnosis	ICD-9-CM
571.3	Unspecified alcoholic liver damage	Diagnosis	ICD-9-CM
648.3	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
648.30	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care	Diagnosis	ICD-9-CM
648.31	Maternal drug dependence, with delivery	Diagnosis	ICD-9-CM
648.32	Maternal drug dependence, with delivery, with current postpartum complication	Diagnosis	ICD-9-CM
648.33	Maternal drug dependence, antepartum	Diagnosis	ICD-9-CM
648.34	Maternal drug dependence complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
655.5	Suspected damage to fetus from drugs, affecting management of mother	Diagnosis	ICD-9-CM
655.50	Suspected damage to fetus from drugs, affecting management of mother, unspecified as to episode of care	Diagnosis	ICD-9-CM
655.51	Suspected damage to fetus from drugs, affecting management of mother, delivered	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
655.53	Suspected damage to fetus from drugs, affecting management of mother, antepartum	Diagnosis	ICD-9-CM
760.71	Noxious influences affecting fetus or newborn via placenta or breast milk, alcohol	Diagnosis	ICD-9-CM
760.72	Noxious influences affecting fetus or newborn via placenta or breast milk, narcotics	Diagnosis	ICD-9-CM
760.73	Noxious influences affecting fetus or newborn via placenta or breast milk, hallucinogenic agents	Diagnosis	ICD-9-CM
760.75	Noxious influences affecting fetus or newborn via placenta or breast milk, cocaine	Diagnosis	ICD-9-CM
779.5	Drug withdrawal syndrome in newborn	Diagnosis	ICD-9-CM
94.6	Alcohol and drug rehabilitation and detoxification	Procedure	ICD-9-CM
94.61	Alcohol rehabilitation	Procedure	ICD-9-CM
94.62	Alcohol detoxification	Procedure	ICD-9-CM
94.63	Alcohol rehabilitation and detoxification	Procedure	ICD-9-CM
94.64	Drug rehabilitation	Procedure	ICD-9-CM
94.65	Drug detoxification	Procedure	ICD-9-CM
94.66	Drug rehabilitation and detoxification	Procedure	ICD-9-CM
94.67	Combined alcohol and drug rehabilitation	Procedure	ICD-9-CM
94.68	Combined alcohol and drug detoxification	Procedure	ICD-9-CM
94.69	Combined alcohol and drug rehabilitation and detoxification	Procedure	ICD-9-CM
965.0	Poisoning by opiates and related narcotics	Diagnosis	ICD-9-CM
965.00	Poisoning by opium (alkaloids), unspecified	Diagnosis	ICD-9-CM
965.01	Poisoning by heroin	Diagnosis	ICD-9-CM
965.02	Poisoning by methadone	Diagnosis	ICD-9-CM
965.09	Poisoning by opiates and related narcotics, other	Diagnosis	ICD-9-CM
980.0	Toxic effect of ethyl alcohol	Diagnosis	ICD-9-CM
E850.0	Accidental poisoning by heroin	Diagnosis	ICD-9-CM
E850.1	Accidental poisoning by methadone	Diagnosis	ICD-9-CM
E850.2	Accidental poisoning by other opiates and related narcotics	Diagnosis	ICD-9-CM
E854.1	Accidental poisoning by psychodysleptics (hallucinogens)	Diagnosis	ICD-9-CM
E860.0	Accidental poisoning by alcoholic beverages	Diagnosis	ICD-9-CM
E935.0	Heroin causing adverse effect in therapeutic use	Diagnosis	ICD-9-CM
E935.1	Methadone causing adverse effect in therapeutic use	Diagnosis	ICD-9-CM
F10.10	Alcohol abuse, uncomplicated	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
F10.130	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
F10.150	Alcohol abuse with alcohol-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F10.180	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
F10.20	Alcohol dependence, uncomplicated	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
F10.230	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
F10.250	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 amnestic disorder	Diagnosis	ICD-10-CM
F10.27	Alcohol dependence with alcohol-induced persisting dementia	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
F10.920	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
F10.930	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
F10.950	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 amnestic	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F11.951	Opioid use, unspecified with opioid-induced psychotic disorder with hallucinations	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
F12.10	Cannabis abuse, uncomplicated	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
F12.150	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
F12.180	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
F12.20	Cannabis dependence, uncomplicated	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
F12.250	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
F12.280	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
F12.90	Cannabis use, unspecified, uncomplicated	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
F12.950	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
F12.980	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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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,	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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F13.26	Sedative, hypnotic or anxiolytic dependence with sedative, hypnotic or anxiolytic-induced persisting amnestic 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, uncomplicated	Diagnosis	ICD-10-CM
F13.921	Sedative, hypnotic or anxiolytic use, unspecified with intoxication	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 amnestic 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
F13.981	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F14.10	Cocaine abuse, uncomplicated	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
F14.150	Cocaine abuse with cocaine-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F14.151	Cocaine abuse with cocaine-induced psychotic disorder with	Diagnosis	ICD-10-CM
F14.159	Cocaine abuse with cocaine-induced psychotic disorder, unspecified	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
F14.20	Cocaine dependence, uncomplicated	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
F14.250	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,	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
F14.90	Cocaine use, unspecified, uncomplicated	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F14.94	Cocaine use, unspecified with cocaine-induced mood 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
F14.980	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 F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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
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
F17.213	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
F17.223	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced disorders	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
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 hallucinations	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 delusions	Diagnosis	ICD-10-CM
F18.951	Inhalant use, unspecified with inhalant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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 disturbance	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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
F55.0	Abuse of antacids	Diagnosis	ICD-10-CM
F55.1	Abuse of herbal or folk remedies	Diagnosis	ICD-10-CM
F55.2	Abuse of laxatives	Diagnosis	ICD-10-CM
F55.3	Abuse of steroids or hormones	Diagnosis	ICD-10-CM
F55.4	Abuse of vitamins	Diagnosis	ICD-10-CM
F55.8	Abuse of other non-psychoactive substances	Diagnosis	ICD-10-CM
G62.1	Alcoholic polyneuropathy	Diagnosis	ICD-10-CM
HZ2ZZZZ	Detoxification Services for Substance Abuse Treatment	Procedure	ICD-10-PCS
HZ30ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ31ZZZ	Individual Counseling for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ32ZZZ	Individual Counseling for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ33ZZZ	Individual Counseling for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ34ZZZ	Individual Counseling for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ35ZZZ	Individual Counseling for Substance Abuse Treatment, Vocational	Procedure	ICD-10-PCS
HZ36ZZZ	Individual Counseling for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ37ZZZ	Individual Counseling for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
HZ38ZZZ	Individual Counseling for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ39ZZZ	Individual Counseling for Substance Abuse Treatment, Continuing Care	Procedure	ICD-10-PCS
HZ3BZZZ	Individual Counseling for Substance Abuse Treatment, Spiritual	Procedure	ICD-10-PCS
HZ40ZZZ	Group Counseling for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ93ZZZ	Pharmacotherapy for Substance Abuse Treatment, Antabuse	Procedure	ICD-10-PCS
HZ96ZZZ	Pharmacotherapy for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
I42.6	Alcoholic cardiomyopathy	Diagnosis	ICD-10-CM
K29.20	Alcoholic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	Diagnosis	ICD-10-CM
K70.0	Alcoholic fatty liver	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K70.2	Alcoholic fibrosis and sclerosis of liver	Diagnosis	ICD-10-CM
K70.30	Alcoholic cirrhosis of liver without ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K70.9	Alcoholic liver disease, unspecified	Diagnosis	ICD-10-CM
O35.5XX0	Maternal care for (suspected) damage to fetus by drugs, not applicable or unspecified	Diagnosis	ICD-10-CM
O35.5XX1	Maternal care for (suspected) damage to fetus by drugs, fetus 1	Diagnosis	ICD-10-CM
O35.5XX2	Maternal care for (suspected) damage to fetus by drugs, fetus 2	Diagnosis	ICD-10-CM
O35.5XX3	Maternal care for (suspected) damage to fetus by drugs, fetus 3	Diagnosis	ICD-10-CM
O35.5XX4	Maternal care for (suspected) damage to fetus by drugs, fetus 4	Diagnosis	ICD-10-CM
O35.5XX5	Maternal care for (suspected) damage to fetus by drugs, fetus 5	Diagnosis	ICD-10-CM
O35.5XX9	Maternal care for (suspected) damage to fetus by drugs, other fetus	Diagnosis	ICD-10-CM
O99.320	Drug use complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.321	Drug use complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.322	Drug use complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.323	Drug use complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.324	Drug use complicating childbirth	Diagnosis	ICD-10-CM
O99.325	Drug use complicating the puerperium	Diagnosis	ICD-10-CM
P04.3	Newborn affected by maternal use of alcohol	Diagnosis	ICD-10-CM
P04.41	Newborn affected by maternal use of cocaine	Diagnosis	ICD-10-CM
P04.49	Newborn affected by maternal use of other drugs of addiction	Diagnosis	ICD-10-CM
P96.1	Neonatal withdrawal symptoms from maternal use of drugs of addiction	Diagnosis	ICD-10-CM
P96.2	Withdrawal symptoms from therapeutic use of drugs in newborn	Diagnosis	ICD-10-CM
Q86.0	Fetal alcohol syndrome (dysmorphic)	Diagnosis	ICD-10-CM
T40.0X1A	Poisoning by opium, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.0X2A	Poisoning by opium, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.0X3A	Poisoning by opium, assault, initial encounter	Diagnosis	ICD-10-CM
T40.0X4A	Poisoning by opium, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.0X5A	Adverse effect of opium, initial encounter	Diagnosis	ICD-10-CM
T40.0X5S	Adverse effect of opium, sequela	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
T40.1X1A	Poisoning by heroin, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.1X2A	Poisoning by heroin, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.1X3A	Poisoning by heroin, assault, initial encounter	Diagnosis	ICD-10-CM
T40.1X4A	Poisoning by heroin, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.2X1A	Poisoning by other opioids, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.2X2A	Poisoning by other opioids, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.2X3A	Poisoning by other opioids, assault, initial encounter	Diagnosis	ICD-10-CM
T40.2X4A	Poisoning by other opioids, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X1A	Poisoning by methadone, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.3X2A	Poisoning by methadone, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.3X3A	Poisoning by methadone, assault, initial encounter	Diagnosis	ICD-10-CM
T40.3X4A	Poisoning by methadone, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.3X5A	Adverse effect of methadone, initial 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
T40.412A	Poisoning by fentanyl or fentanyl analogs, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.413A	Poisoning by fentanyl or fentanyl analogs, assault, initial encounter	Diagnosis	ICD-10-CM
T40.414A	Poisoning by fentanyl or fentanyl analogs, undetermined, initial	Diagnosis	ICD-10-CM
T40.415A	Adverse effect of fentanyl or fentanyl analogs, initial encounter	Diagnosis	ICD-10-CM
T40.421A	Poisoning by tramadol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.422A	Poisoning by tramadol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.423A	Poisoning by tramadol, assault, initial encounter	Diagnosis	ICD-10-CM
T40.424A	Poisoning by tramadol, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.425A	Adverse effect of tramadol, initial encounter	Diagnosis	ICD-10-CM
T40.491A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.492A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.493A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.494A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.495A	Adverse effect of other synthetic narcotics, initial encounter	Diagnosis	ICD-10-CM
T40.4X1A	Poisoning by other synthetic narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.4X2A	Poisoning by other synthetic narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.4X3A	Poisoning by other synthetic narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.4X4A	Poisoning by other synthetic narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.601A	Poisoning by unspecified narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.602A	Poisoning by unspecified narcotics, intentional self-harm, initial	Diagnosis	ICD-10-CM
T40.603A	Poisoning by unspecified narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.604A	Poisoning by unspecified narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
T40.691A	Poisoning by other narcotics, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.692A	Poisoning by other narcotics, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T40.693A	Poisoning by other narcotics, assault, initial encounter	Diagnosis	ICD-10-CM
T40.694A	Poisoning by other narcotics, undetermined, initial encounter	Diagnosis	ICD-10-CM
T40.7X1A	Poisoning by cannabis (derivatives), accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T40.8X1A	Poisoning by lysergide [LSD], accidental (unintentional), 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
T51.0X1A	Toxic effect of ethanol, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T51.0X2A	Toxic effect of ethanol, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T51.0X3A	Toxic effect of ethanol, assault, initial encounter	Diagnosis	ICD-10-CM
T51.0X4A	Toxic effect of ethanol, undetermined, initial encounter	Diagnosis	ICD-10-CM
V65.42	Counseling on substance use and abuse	Diagnosis	ICD-9-CM
V79.1	Screening for alcoholism	Diagnosis	ICD-9-CM
Z71.41	Alcohol abuse counseling and surveillance of alcoholic	Diagnosis	ICD-10-CM
Z71.42	Counseling for family member of alcoholic	Diagnosis	ICD-10-CM
Z71.51	Drug abuse counseling and surveillance of drug abuser	Diagnosis	ICD-10-CM
Z71.52	Counseling for family member of drug abuser	Diagnosis	ICD-10-CM
Z71.6	Tobacco abuse counseling	Diagnosis	ICD-10-CM
<b>Atrial Fibrillation</b>			
427.31	Atrial fibrillation	Diagnosis	ICD-9-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
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
<b>Ischemic Heart Disease</b>			
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	Diagnosis	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	Diagnosis	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	Diagnosis	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	Diagnosis	ICD-9-CM
411.0	Postmyocardial infarction syndrome	Diagnosis	ICD-9-CM
411.1	Intermediate coronary syndrome	Diagnosis	ICD-9-CM
411.81	Acute coronary occlusion without myocardial infarction	Diagnosis	ICD-9-CM
411.89	Other acute and subacute form of ischemic heart disease	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
412	Old myocardial infarction	Diagnosis	ICD-9-CM
413.0	Angina decubitus	Diagnosis	ICD-9-CM
413.1	Prinzmetal angina	Diagnosis	ICD-9-CM
413.9	Other and unspecified angina pectoris	Diagnosis	ICD-9-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	Diagnosis	ICD-9-CM
414.01	Coronary atherosclerosis of native coronary artery	Diagnosis	ICD-9-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	Diagnosis	ICD-9-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	Diagnosis	ICD-9-CM
414.04	Coronary atherosclerosis of artery bypass graft	Diagnosis	ICD-9-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	Diagnosis	ICD-9-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	Diagnosis	ICD-9-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	Diagnosis	ICD-9-CM
414.12	Dissection of coronary artery	Diagnosis	ICD-9-CM
414.2	Chronic total occlusion of coronary artery	Diagnosis	ICD-9-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-9-CM
414.4	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-9-CM
414.8	Other specified forms of chronic ischemic heart disease	Diagnosis	ICD-9-CM
414.9	Unspecified chronic ischemic heart disease	Diagnosis	ICD-9-CM
I20.0	Unstable angina	Diagnosis	ICD-10-CM
I20.1	Angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I20.8	Other forms of angina pectoris	Diagnosis	ICD-10-CM
I20.9	Angina pectoris, unspecified	Diagnosis	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	Diagnosis	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	Diagnosis	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	Diagnosis	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	Diagnosis	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	Diagnosis	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I21.A1	Myocardial infarction type 2	Diagnosis	ICD-10-CM
I21.A9	Other myocardial infarction type	Diagnosis	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	Diagnosis	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	Diagnosis	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	Diagnosis	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	Diagnosis	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I23.0	Hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I24.9	Acute ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.2	Old myocardial infarction	Diagnosis	ICD-10-CM
I25.3	Aneurysm of heart	Diagnosis	ICD-10-CM
I25.41	Coronary artery aneurysm	Diagnosis	ICD-10-CM
I25.42	Coronary artery dissection	Diagnosis	ICD-10-CM
I25.5	Ischemic cardiomyopathy	Diagnosis	ICD-10-CM
I25.6	Silent myocardial ischemia	Diagnosis	ICD-10-CM
I25.700	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.720	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
I25.730	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
I25.750	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
I25.760	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
I25.790	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
I25.810	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
<b>Heart Failure</b>			
398.91	Rheumatic heart failure (congestive)	Diagnosis	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
428.0	Congestive heart failure, unspecified	Diagnosis	ICD-9-CM
428.1	Left heart failure	Diagnosis	ICD-9-CM
428.20	Unspecified systolic heart failure	Diagnosis	ICD-9-CM
428.21	Acute systolic heart failure	Diagnosis	ICD-9-CM
428.22	Chronic systolic heart failure	Diagnosis	ICD-9-CM
428.23	Acute on chronic systolic heart failure	Diagnosis	ICD-9-CM
428.30	Unspecified diastolic heart failure	Diagnosis	ICD-9-CM
428.31	Acute diastolic heart failure	Diagnosis	ICD-9-CM
428.32	Chronic diastolic heart failure	Diagnosis	ICD-9-CM
428.33	Acute on chronic diastolic heart failure	Diagnosis	ICD-9-CM
428.40	Unspecified combined systolic and diastolic heart failure	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
428.41	Acute combined systolic and diastolic heart failure	Diagnosis	ICD-9-CM
428.42	Chronic combined systolic and diastolic heart failure	Diagnosis	ICD-9-CM
428.43	Acute on chronic combined systolic and diastolic heart failure	Diagnosis	ICD-9-CM
428.9	Unspecified heart failure	Diagnosis	ICD-9-CM
I09.81	Rheumatic heart failure	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	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
I50.1	Left ventricular failure, unspecified	Diagnosis	ICD-10-CM
I50.20	Unspecified systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.21	Acute systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.22	Chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.23	Acute on chronic systolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.30	Unspecified diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.31	Acute diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.32	Chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.33	Acute on chronic diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	Diagnosis	ICD-10-CM
I50.810	Right heart failure, unspecified	Diagnosis	ICD-10-CM
I50.811	Acute right heart failure	Diagnosis	ICD-10-CM
I50.812	Chronic right heart failure	Diagnosis	ICD-10-CM
I50.813	Acute on chronic right heart failure	Diagnosis	ICD-10-CM
I50.814	Right heart failure due to left heart failure	Diagnosis	ICD-10-CM
I50.82	Biventricular heart failure	Diagnosis	ICD-10-CM
I50.83	High output heart failure	Diagnosis	ICD-10-CM
I50.84	End stage heart failure	Diagnosis	ICD-10-CM
I50.89	Other heart failure	Diagnosis	ICD-10-CM
I50.9	Heart failure, unspecified	Diagnosis	ICD-10-CM
<b>Stroke</b>			
430	Subarachnoid hemorrhage	Diagnosis	ICD-9-CM
431	Intracerebral hemorrhage	Diagnosis	ICD-9-CM
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	Diagnosis	ICD-9-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	Diagnosis	ICD-9-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	Diagnosis	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
434.00	Cerebral thrombosis without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	Diagnosis	ICD-9-CM
434.10	Cerebral embolism without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	Diagnosis	ICD-9-CM
434.90	Unspecified cerebral artery occlusion without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	Diagnosis	ICD-9-CM
435.0	Basilar artery syndrome	Diagnosis	ICD-9-CM
435.1	Vertebral artery syndrome	Diagnosis	ICD-9-CM
435.3	Vertebrobasilar artery syndrome	Diagnosis	ICD-9-CM
435.8	Other specified transient cerebral ischemias	Diagnosis	ICD-9-CM
435.9	Unspecified transient cerebral ischemia	Diagnosis	ICD-9-CM
436	Acute, but ill-defined, cerebrovascular disease	Diagnosis	ICD-9-CM
997.02	Iatrogenic cerebrovascular infarction or hemorrhage	Diagnosis	ICD-9-CM
G45.0	Vertebro-basilar artery syndrome	Diagnosis	ICD-10-CM
G45.1	Carotid artery syndrome (hemispheric)	Diagnosis	ICD-10-CM
G45.2	Multiple and bilateral precerebral artery syndromes	Diagnosis	ICD-10-CM
G45.8	Other transient cerebral ischemic attacks and related syndromes	Diagnosis	ICD-10-CM
G45.9	Transient cerebral ischemic attack, unspecified	Diagnosis	ICD-10-CM
G46.0	Middle cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.1	Anterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.2	Posterior cerebral artery syndrome	Diagnosis	ICD-10-CM
G46.3	Brain stem stroke syndrome	Diagnosis	ICD-10-CM
G46.4	Cerebellar stroke syndrome	Diagnosis	ICD-10-CM
G46.5	Pure motor lacunar syndrome	Diagnosis	ICD-10-CM
G46.6	Pure sensory lacunar syndrome	Diagnosis	ICD-10-CM
G46.7	Other lacunar syndromes	Diagnosis	ICD-10-CM
G46.8	Other vascular syndromes of brain in cerebrovascular diseases	Diagnosis	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	Diagnosis	ICD-10-CM
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	Diagnosis	ICD-10-CM
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	Diagnosis	ICD-10-CM
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral	Diagnosis	ICD-10-CM
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	Diagnosis	ICD-10-CM
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	Diagnosis	ICD-10-CM
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	Diagnosis	ICD-10-CM
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	Diagnosis	ICD-10-CM
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	Diagnosis	ICD-10-CM
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral	Diagnosis	ICD-10-CM
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	Diagnosis	ICD-10-CM
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	Diagnosis	ICD-10-CM
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	Diagnosis	ICD-10-CM
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	Diagnosis	ICD-10-CM
I60.8	Other nontraumatic subarachnoid hemorrhage	Diagnosis	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	Diagnosis	ICD-10-CM
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	Diagnosis	ICD-10-CM
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	Diagnosis	ICD-10-CM
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	Diagnosis	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	Diagnosis	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	Diagnosis	ICD-10-CM
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	Diagnosis	ICD-10-CM
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	Diagnosis	ICD-10-CM
I61.8	Other nontraumatic intracerebral hemorrhage	Diagnosis	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	Diagnosis	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.02	Cerebral infarction due to thrombosis of basilar artery	Diagnosis	ICD-10-CM
I63.031	Cerebral infarction due to thrombosis of right carotid artery	Diagnosis	ICD-10-CM
I63.032	Cerebral infarction due to thrombosis of left carotid artery	Diagnosis	ICD-10-CM
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.09	Cerebral infarction due to thrombosis of other precerebral artery	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	Diagnosis	ICD-10-CM
I63.111	Cerebral infarction due to embolism of right vertebral artery	Diagnosis	ICD-10-CM
I63.112	Cerebral infarction due to embolism of left vertebral artery	Diagnosis	ICD-10-CM
I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.12	Cerebral infarction due to embolism of basilar artery	Diagnosis	ICD-10-CM
I63.131	Cerebral infarction due to embolism of right carotid artery	Diagnosis	ICD-10-CM
I63.132	Cerebral infarction due to embolism of left carotid artery	Diagnosis	ICD-10-CM
I63.133	Cerebral infarction due to embolism of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.19	Cerebral infarction due to embolism of other precerebral artery	Diagnosis	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	Diagnosis	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	Diagnosis	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Diagnosis	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Diagnosis	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	Diagnosis	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral	Diagnosis	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.333	Cerebral infarction due to thrombosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral	Diagnosis	ICD-10-CM
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.441	Cerebral infarction due to embolism of right cerebellar artery	Diagnosis	ICD-10-CM
I63.442	Cerebral infarction due to embolism of left cerebellar artery	Diagnosis	ICD-10-CM
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.49	Cerebral infarction due to embolism of other cerebral artery	Diagnosis	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.81	Other cerebral infarction due to occlusion or stenosis of small artery	Diagnosis	ICD-10-CM
I63.89	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.9	Cerebral infarction, unspecified	Diagnosis	ICD-10-CM
I66.01	Occlusion and stenosis of right middle cerebral artery	Diagnosis	ICD-10-CM
I66.02	Occlusion and stenosis of left middle cerebral artery	Diagnosis	ICD-10-CM
I66.03	Occlusion and stenosis of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I66.09	Occlusion and stenosis of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I66.11	Occlusion and stenosis of right anterior cerebral artery	Diagnosis	ICD-10-CM
I66.12	Occlusion and stenosis of left anterior cerebral artery	Diagnosis	ICD-10-CM
I66.13	Occlusion and stenosis of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I66.19	Occlusion and stenosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I66.21	Occlusion and stenosis of right posterior cerebral artery	Diagnosis	ICD-10-CM
I66.22	Occlusion and stenosis of left posterior cerebral artery	Diagnosis	ICD-10-CM
I66.23	Occlusion and stenosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I66.29	Occlusion and stenosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM
I66.3	Occlusion and stenosis of cerebellar arteries	Diagnosis	ICD-10-CM
I66.8	Occlusion and stenosis of other cerebral arteries	Diagnosis	ICD-10-CM
I66.9	Occlusion and stenosis of unspecified cerebral artery	Diagnosis	ICD-10-CM
I67.841	Reversible cerebrovascular vasoconstriction syndrome	Diagnosis	ICD-10-CM
I67.848	Other cerebrovascular vasospasm and vasoconstriction	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I67.89	Other cerebrovascular disease	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
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	Diagnosis	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	Diagnosis	ICD-10-CM
<b>Diabetes</b>			
249.00	Secondary diabetes mellitus without mention of complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.01	Secondary diabetes mellitus without mention of complication, uncontrolled	Diagnosis	ICD-9-CM
249.10	Secondary diabetes mellitus with ketoacidosis, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	Diagnosis	ICD-9-CM
249.20	Secondary diabetes mellitus with hyperosmolarity, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	Diagnosis	ICD-9-CM
249.30	Secondary diabetes mellitus with other coma, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.31	Secondary diabetes mellitus with other coma, uncontrolled	Diagnosis	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.50	Secondary diabetes mellitus with ophthalmic manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.51	Secondary diabetes mellitus with ophthalmic manifestations,	Diagnosis	ICD-9-CM
249.60	Secondary diabetes mellitus with neurological manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.61	Secondary diabetes mellitus with neurological manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.70	Secondary diabetes mellitus with peripheral circulatory disorders, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.71	Secondary diabetes mellitus with peripheral circulatory disorders, uncontrolled	Diagnosis	ICD-9-CM
249.80	Secondary diabetes mellitus with other specified manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.81	Secondary diabetes mellitus with other specified manifestations, uncontrolled	Diagnosis	ICD-9-CM
249.90	Secondary diabetes mellitus with unspecified complication, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.91	Secondary diabetes mellitus with unspecified complication, uncontrolled	Diagnosis	ICD-9-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
357.2	Polyneuropathy in diabetes	Diagnosis	ICD-9-CM
362.01	Background diabetic retinopathy	Diagnosis	ICD-9-CM
362.02	Proliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.03	Nonproliferative diabetic retinopathy NOS	Diagnosis	ICD-9-CM
362.04	Mild nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.05	Moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.06	Severe nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
366.41	Diabetic cataract	Diagnosis	ICD-9-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema,	Diagnosis	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E08.40	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
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	Diagnosis	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	Diagnosis	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	Diagnosis	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	Diagnosis	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3531	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E09.3532	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E09.3539	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified	Diagnosis	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	Diagnosis	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.638	Type 1 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	Diagnosis	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	Diagnosis	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	Diagnosis	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	Diagnosis	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	Diagnosis	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	Diagnosis	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	Diagnosis	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	Diagnosis	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	Diagnosis	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	Diagnosis	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	Diagnosis	ICD-10-CM
<b>Hypertension</b>			
362.11	Hypertensive retinopathy	Diagnosis	ICD-9-CM
401.0	Essential hypertension, malignant	Diagnosis	ICD-9-CM
401.1	Essential hypertension, benign	Diagnosis	ICD-9-CM
401.9	Unspecified essential hypertension	Diagnosis	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	Diagnosis	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	Diagnosis	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	Diagnosis	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.00	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.90	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disease stage I through stage IV, or unspecified	Diagnosis	ICD-9-CM
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
405.01	Secondary renovascular hypertension, malignant	Diagnosis	ICD-9-CM
405.09	Other secondary hypertension, malignant	Diagnosis	ICD-9-CM
405.11	Secondary renovascular hypertension, benign	Diagnosis	ICD-9-CM
405.19	Other secondary hypertension, benign	Diagnosis	ICD-9-CM
405.91	Secondary renovascular hypertension, unspecified	Diagnosis	ICD-9-CM
405.99	Other secondary hypertension, unspecified	Diagnosis	ICD-9-CM
437.2	Hypertensive encephalopathy	Diagnosis	ICD-9-CM
H35.031	Hypertensive retinopathy, right eye	Diagnosis	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	Diagnosis	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	Diagnosis	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	Diagnosis	ICD-10-CM
I10	Essential (primary) hypertension	Diagnosis	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I11.9	Hypertensive heart disease without heart failure	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	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
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I15.0	Renovascular hypertension	Diagnosis	ICD-10-CM
I15.1	Hypertension secondary to other renal disorders	Diagnosis	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	Diagnosis	ICD-10-CM
I15.8	Other secondary hypertension	Diagnosis	ICD-10-CM
I15.9	Secondary hypertension, unspecified	Diagnosis	ICD-10-CM
I67.4	Hypertensive encephalopathy	Diagnosis	ICD-10-CM
N26.2	Page kidney	Diagnosis	ICD-10-CM
<b>Rheumatic Disease</b>			
393	Chronic rheumatic pericarditis	Diagnosis	ICD-9-CM
397	Diseases of other endocardial structures	Diagnosis	ICD-9-CM
397.0	Diseases of tricuspid valve	Diagnosis	ICD-9-CM
397.1	Rheumatic diseases of pulmonary valve	Diagnosis	ICD-9-CM
397.9	Rheumatic diseases of endocardium, valve unspecified	Diagnosis	ICD-9-CM
398	Other rheumatic heart disease	Diagnosis	ICD-9-CM
398.0	Rheumatic myocarditis	Diagnosis	ICD-9-CM
398.9	Other and unspecified rheumatic heart diseases	Diagnosis	ICD-9-CM
398.90	Unspecified rheumatic heart disease	Diagnosis	ICD-9-CM
398.91	Rheumatic heart failure (congestive)	Diagnosis	ICD-9-CM
398.99	Other and unspecified rheumatic heart diseases	Diagnosis	ICD-9-CM
I07.0	Rheumatic tricuspid stenosis	Diagnosis	ICD-10-CM
I07.1	Rheumatic tricuspid insufficiency	Diagnosis	ICD-10-CM
I07.2	Rheumatic tricuspid stenosis and insufficiency	Diagnosis	ICD-10-CM
I07.8	Other rheumatic tricuspid valve diseases	Diagnosis	ICD-10-CM
I07.9	Rheumatic tricuspid valve disease, unspecified	Diagnosis	ICD-10-CM
I08.1	Rheumatic disorders of both mitral and tricuspid valves	Diagnosis	ICD-10-CM
I08.2	Rheumatic disorders of both aortic and tricuspid valves	Diagnosis	ICD-10-CM
I08.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves	Diagnosis	ICD-10-CM
I08.8	Other rheumatic multiple valve diseases	Diagnosis	ICD-10-CM
I08.9	Rheumatic multiple valve disease, unspecified	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I09	Other rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.0	Rheumatic myocarditis	Diagnosis	ICD-10-CM
I09.1	Rheumatic diseases of endocardium, valve unspecified	Diagnosis	ICD-10-CM
I09.2	Chronic rheumatic pericarditis	Diagnosis	ICD-10-CM
I09.8	Other specified rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.81	Rheumatic heart failure	Diagnosis	ICD-10-CM
I09.89	Other specified rheumatic heart diseases	Diagnosis	ICD-10-CM
I09.9	Rheumatic heart disease, unspecified	Diagnosis	ICD-10-CM
<b>Chronic Kidney Disease</b>			
016.00	Tuberculosis of kidney, confirmation unspecified	Diagnosis	ICD-9-CM
016.01	Tuberculosis of kidney, bacteriological or histological examination not done	Diagnosis	ICD-9-CM
016.02	Tuberculosis of kidney, bacteriological or histological examination unknown (at present)	Diagnosis	ICD-9-CM
016.03	Tuberculosis of kidney, tubercle bacilli found (in sputum) by microscopy	Diagnosis	ICD-9-CM
016.04	Tuberculosis of kidney, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture	Diagnosis	ICD-9-CM
016.05	Tuberculosis of kidney, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically	Diagnosis	ICD-9-CM
016.06	Tuberculosis of kidney, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]	Diagnosis	ICD-9-CM
095.4	Syphilis of kidney	Diagnosis	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
189.9	Malignant neoplasm of urinary organ, site unspecified	Diagnosis	ICD-9-CM
223.0	Benign neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
236.91	Neoplasm of uncertain behavior of kidney and ureter	Diagnosis	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
271.4	Renal glycosuria	Diagnosis	ICD-9-CM
274.10	Gouty nephropathy, unspecified	Diagnosis	ICD-9-CM
283.11	Hemolytic-uremic syndrome	Diagnosis	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.02	Hypertensive heart and chronic kidney disease, malignant, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.12	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
404.92	Hypertensive heart and chronic kidney disease, unspecified, without heart failure and with chronic kidney disease stage V or end stage renal	Diagnosis	ICD-9-CM
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease stage V or end stage renal disease	Diagnosis	ICD-9-CM
440.1	Atherosclerosis of renal artery	Diagnosis	ICD-9-CM
442.1	Aneurysm of renal artery	Diagnosis	ICD-9-CM
572.4	Hepatorenal syndrome	Diagnosis	ICD-9-CM
580.0	Acute glomerulonephritis with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
580.4	Acute glomerulonephritis with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
580.81	Acute glomerulonephritis with other specified pathological lesion in kidney in disease classified elsewhere	Diagnosis	ICD-9-CM
580.89	Other acute glomerulonephritis with other specified pathological lesion in kidney	Diagnosis	ICD-9-CM
580.9	Acute glomerulonephritis with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
581.0	Nephrotic syndrome with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
581.1	Nephrotic syndrome with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
581.2	Nephrotic syndrome with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
581.3	Nephrotic syndrome with lesion of minimal change glomerulonephritis	Diagnosis	ICD-9-CM
581.81	Nephrotic syndrome with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM
581.89	Other nephrotic syndrome with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
581.9	Nephrotic syndrome with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
582.0	Chronic glomerulonephritis with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.1	Chronic glomerulonephritis with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
582.2	Chronic glomerulonephritis with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.4	Chronic glomerulonephritis with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
582.81	Chronic glomerulonephritis with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
582.89	Other chronic glomerulonephritis with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
582.9	Chronic glomerulonephritis with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
583.0	Nephritis and nephropathy, not specified as acute or chronic, with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
583.1	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
583.2	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
583.4	Nephritis and nephropathy, not specified as acute or chronic, with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
583.6	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal cortical necrosis	Diagnosis	ICD-9-CM
583.7	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal medullary necrosis	Diagnosis	ICD-9-CM
583.81	Nephritis and nephropathy, not specified as acute or chronic, with other specified pathological lesion in kidney, in diseases classified elsewhere	Diagnosis	ICD-9-CM
583.89	Other nephritis and nephropathy, not specified as acute or chronic, with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
583.9	Nephritis and nephropathy, not specified as acute or chronic, with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
584.5	Acute kidney failure with lesion of tubular necrosis	Diagnosis	ICD-9-CM
584.6	Acute kidney failure with lesion of renal cortical necrosis	Diagnosis	ICD-9-CM
584.7	Acute kidney failure with lesion of medullary [papillary] necrosis	Diagnosis	ICD-9-CM
584.8	Acute kidney failure with other specified pathological lesion in kidney	Diagnosis	ICD-9-CM
584.9	Acute kidney failure, unspecified	Diagnosis	ICD-9-CM
585.1	Chronic kidney disease, Stage I	Diagnosis	ICD-9-CM
585.2	Chronic kidney disease, Stage II (mild)	Diagnosis	ICD-9-CM
585.3	Chronic kidney disease, Stage III (moderate)	Diagnosis	ICD-9-CM
585.4	Chronic kidney disease, Stage IV (severe)	Diagnosis	ICD-9-CM
585.5	Chronic kidney disease, Stage V	Diagnosis	ICD-9-CM
585.6	End stage renal disease	Diagnosis	ICD-9-CM
585.9	Chronic kidney disease, unspecified	Diagnosis	ICD-9-CM
586	Unspecified renal failure	Diagnosis	ICD-9-CM
587	Unspecified renal sclerosis	Diagnosis	ICD-9-CM
588.0	Renal osteodystrophy	Diagnosis	ICD-9-CM
588.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-9-CM
588.81	Secondary hyperparathyroidism (of renal origin)	Diagnosis	ICD-9-CM
588.89	Other specified disorders resulting from impaired renal function	Diagnosis	ICD-9-CM
588.9	Unspecified disorder resulting from impaired renal function	Diagnosis	ICD-9-CM
591	Hydronephrosis	Diagnosis	ICD-9-CM
753.12	Congenital polycystic kidney, unspecified type	Diagnosis	ICD-9-CM
753.13	Congenital polycystic kidney, autosomal dominant	Diagnosis	ICD-9-CM
753.14	Congenital polycystic kidney, autosomal recessive	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
753.15	Congenital renal dysplasia	Diagnosis	ICD-9-CM
753.16	Congenital medullary cystic kidney	Diagnosis	ICD-9-CM
753.17	Congenital medullary sponge kidney	Diagnosis	ICD-9-CM
753.19	Other specified congenital cystic kidney disease	Diagnosis	ICD-9-CM
753.20	Unspecified obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
753.21	Congenital obstruction of ureteropelvic junction	Diagnosis	ICD-9-CM
753.22	Congenital obstruction of ureterovesical junction	Diagnosis	ICD-9-CM
753.23	Congenital ureterocele	Diagnosis	ICD-9-CM
753.29	Other obstructive defect of renal pelvis and ureter	Diagnosis	ICD-9-CM
794.4	Nonspecific abnormal results of kidney function study	Diagnosis	ICD-9-CM
A18.11	Tuberculosis of kidney and ureter	Diagnosis	ICD-10-CM
A52.75	Syphilis of kidney and ureter	Diagnosis	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	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
C68.9	Malignant neoplasm of urinary organ, unspecified	Diagnosis	ICD-10-CM
D30.00	Benign neoplasm of unspecified kidney	Diagnosis	ICD-10-CM
D30.01	Benign neoplasm of right kidney	Diagnosis	ICD-10-CM
D30.02	Benign neoplasm of left kidney	Diagnosis	ICD-10-CM
D41.00	Neoplasm of uncertain behavior of unspecified kidney	Diagnosis	ICD-10-CM
D41.01	Neoplasm of uncertain behavior of right kidney	Diagnosis	ICD-10-CM
D41.02	Neoplasm of uncertain behavior of left kidney	Diagnosis	ICD-10-CM
D41.10	Neoplasm of uncertain behavior of unspecified renal pelvis	Diagnosis	ICD-10-CM
D41.11	Neoplasm of uncertain behavior of right renal pelvis	Diagnosis	ICD-10-CM
D41.12	Neoplasm of uncertain behavior of left renal pelvis	Diagnosis	ICD-10-CM
D41.20	Neoplasm of uncertain behavior of unspecified ureter	Diagnosis	ICD-10-CM
D41.21	Neoplasm of uncertain behavior of right ureter	Diagnosis	ICD-10-CM
D41.22	Neoplasm of uncertain behavior of left ureter	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	Diagnosis	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.65	Type 1 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E74.8	Other specified disorders of carbohydrate metabolism	Diagnosis	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	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
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
I70.1	Atherosclerosis of renal artery	Diagnosis	ICD-10-CM
I72.2	Aneurysm of renal artery	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	Diagnosis	ICD-10-CM
M10.311	Gout due to renal impairment, right shoulder	Diagnosis	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	Diagnosis	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	Diagnosis	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	Diagnosis	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	Diagnosis	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	Diagnosis	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	Diagnosis	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	Diagnosis	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	Diagnosis	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	Diagnosis	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	Diagnosis	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	Diagnosis	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	Diagnosis	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	Diagnosis	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	Diagnosis	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	Diagnosis	ICD-10-CM
M10.362	Gout due to renal impairment, left knee	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M10.369	Gout due to renal impairment, unspecified knee	Diagnosis	ICD-10-CM
M10.371	Gout due to renal impairment, right ankle and foot	Diagnosis	ICD-10-CM
M10.372	Gout due to renal impairment, left ankle and foot	Diagnosis	ICD-10-CM
M10.379	Gout due to renal impairment, unspecified ankle and foot	Diagnosis	ICD-10-CM
M10.38	Gout due to renal impairment, vertebrae	Diagnosis	ICD-10-CM
M10.39	Gout due to renal impairment, multiple sites	Diagnosis	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	Diagnosis	ICD-10-CM
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
N00.0	Acute nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N00.1	Acute nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N00.2	Acute nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N00.3	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N00.6	Acute nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N00.8	Acute nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N00.9	Acute nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N00.A	Acute nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.A	Rapidly progressive nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic	Diagnosis	ICD-10-CM
N02.A	Recurrent and persistent hematuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.A	Chronic nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.A	Nephrotic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.A	Unspecified nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N06.A	Isolated proteinuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	Hereditary nephropathy, not elsewhere classified with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N07.A	Hereditary nephropathy, not elsewhere classified with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N13.1	Hydronephrosis with ureteral stricture, not elsewhere classified	Diagnosis	ICD-10-CM
N13.2	Hydronephrosis with renal and ureteral calculous obstruction	Diagnosis	ICD-10-CM
N13.30	Unspecified hydronephrosis	Diagnosis	ICD-10-CM
N13.39	Other hydronephrosis	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N17.0	Acute kidney failure with tubular necrosis	Diagnosis	ICD-10-CM
N17.1	Acute kidney failure with acute cortical necrosis	Diagnosis	ICD-10-CM
N17.2	Acute kidney failure with medullary necrosis	Diagnosis	ICD-10-CM
N17.8	Other acute kidney failure	Diagnosis	ICD-10-CM
N17.9	Acute kidney failure, unspecified	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N25.0	Renal osteodystrophy	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
N26.9	Renal sclerosis, unspecified	Diagnosis	ICD-10-CM
Q61.02	Congenital multiple renal cysts	Diagnosis	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	Diagnosis	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	Diagnosis	ICD-10-CM
Q61.2	Polycystic kidney, adult type	Diagnosis	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	Diagnosis	ICD-10-CM
Q61.4	Renal dysplasia	Diagnosis	ICD-10-CM
Q61.5	Medullary cystic kidney	Diagnosis	ICD-10-CM
Q61.8	Other cystic kidney diseases	Diagnosis	ICD-10-CM
Q62.0	Congenital hydronephrosis	Diagnosis	ICD-10-CM
Q62.10	Congenital occlusion of ureter, unspecified	Diagnosis	ICD-10-CM
Q62.11	Congenital occlusion of ureteropelvic junction	Diagnosis	ICD-10-CM
Q62.12	Congenital occlusion of ureterovesical orifice	Diagnosis	ICD-10-CM
Q62.2	Congenital megaureter	Diagnosis	ICD-10-CM
Q62.31	Congenital ureterocele, orthotopic	Diagnosis	ICD-10-CM
Q62.32	Cecoureterocele	Diagnosis	ICD-10-CM
Q62.39	Other obstructive defects of renal pelvis and ureter	Diagnosis	ICD-10-CM
R94.4	Abnormal results of kidney function studies	Diagnosis	ICD-10-CM
<b>Seizure</b>			
333.2	Myoclonus	Diagnosis	ICD-9-CM
345	Epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.0	Generalized nonconvulsive epilepsy	Diagnosis	ICD-9-CM
345.00	Generalized nonconvulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.01	Generalized nonconvulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.1	Generalized convulsive epilepsy	Diagnosis	ICD-9-CM
345.10	Generalized convulsive epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.11	Generalized convulsive epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
345.2	Epileptic petit mal status	Diagnosis	ICD-9-CM
345.3	Epileptic grand mal status	Diagnosis	ICD-9-CM
345.4	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures	Diagnosis	ICD-9-CM
345.40	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.41	Localization-related (focal) (partial) epilepsy and epileptic syndromes with complex partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.5	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures	Diagnosis	ICD-9-CM
345.50	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.51	Localization-related (focal) (partial) epilepsy and epileptic syndromes with simple partial seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.6	Infantile spasms	Diagnosis	ICD-9-CM
345.60	Infantile spasms without mention of intractable epilepsy	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
345.61	Infantile spasms with intractable epilepsy	Diagnosis	ICD-9-CM
345.7	Epilepsia partialis continua	Diagnosis	ICD-9-CM
345.70	Epilepsia partialis continua without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.71	Epilepsia partialis continua with intractable epilepsy	Diagnosis	ICD-9-CM
345.8	Other forms of epilepsy and recurrent seizures	Diagnosis	ICD-9-CM
345.80	Other forms of epilepsy and recurrent seizures, without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.81	Other forms of epilepsy and recurrent seizures, with intractable epilepsy	Diagnosis	ICD-9-CM
345.9	Unspecified epilepsy	Diagnosis	ICD-9-CM
345.90	Unspecified epilepsy without mention of intractable epilepsy	Diagnosis	ICD-9-CM
345.91	Unspecified epilepsy with intractable epilepsy	Diagnosis	ICD-9-CM
780.3	Convulsions	Diagnosis	ICD-9-CM
780.31	Febrile convulsions (simple), unspecified	Diagnosis	ICD-9-CM
780.32	Complex febrile convulsions	Diagnosis	ICD-9-CM
780.33	Post traumatic seizures	Diagnosis	ICD-9-CM
780.39	Other convulsions	Diagnosis	ICD-9-CM
G25.3	Myoclonus	Diagnosis	ICD-10-CM
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 epilepticus	Diagnosis	ICD-10-CM
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G40.209	Localization-related (focal) (partial) symptomatic epilepsy and epileptic syndromes with complex partial seizures, not intractable, without status epilepticus	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
G40.89	Other seizures	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



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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
R56.00	Simple febrile convulsions	Diagnosis	ICD-10-CM
R56.01	Complex febrile convulsions	Diagnosis	ICD-10-CM
R56.1	Post traumatic seizures	Diagnosis	ICD-10-CM
R56.9	Unspecified convulsions	Diagnosis	ICD-10-CM
<b>Alzheimers/Dementia</b>			
290.0	Senile dementia, uncomplicated	Diagnosis	ICD-9-CM
290.10	Presenile dementia, uncomplicated	Diagnosis	ICD-9-CM
290.11	Presenile dementia with delirium	Diagnosis	ICD-9-CM
290.12	Presenile dementia with delusional features	Diagnosis	ICD-9-CM
290.13	Presenile dementia with depressive features	Diagnosis	ICD-9-CM
290.20	Senile dementia with delusional features	Diagnosis	ICD-9-CM
290.21	Senile dementia with depressive features	Diagnosis	ICD-9-CM
290.3	Senile dementia with delirium	Diagnosis	ICD-9-CM
290.40	Vascular dementia, uncomplicated	Diagnosis	ICD-9-CM
290.41	Vascular dementia, with delirium	Diagnosis	ICD-9-CM
290.42	Vascular dementia, with delusions	Diagnosis	ICD-9-CM
290.43	Vascular dementia, with depressed mood	Diagnosis	ICD-9-CM
294.0	Amnestic disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
294.10	Dementia in conditions classified elsewhere without behavioral disturbance	Diagnosis	ICD-9-CM
294.11	Dementia in conditions classified elsewhere with behavioral disturbance	Diagnosis	ICD-9-CM
294.20	Dementia, unspecified, without behavioral disturbance	Diagnosis	ICD-9-CM
294.21	Dementia, unspecified, with behavioral disturbance	Diagnosis	ICD-9-CM
294.8	Other persistent mental disorders due to conditions classified elsewhere	Diagnosis	ICD-9-CM
331.0	Alzheimer's disease	Diagnosis	ICD-9-CM
331.11	Pick's disease	Diagnosis	ICD-9-CM
331.19	Other frontotemporal dementia	Diagnosis	ICD-9-CM
331.2	Senile degeneration of brain	Diagnosis	ICD-9-CM
331.7	Cerebral degeneration in diseases classified elsewhere	Diagnosis	ICD-9-CM
797	Senility without mention of psychosis	Diagnosis	ICD-9-CM
F01.50	Vascular dementia without behavioral disturbance	Diagnosis	ICD-10-CM
F01.51	Vascular dementia with behavioral disturbance	Diagnosis	ICD-10-CM
F02.80	Dementia in other diseases classified elsewhere without behavioral disturbance	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F02.81	Dementia in other diseases classified elsewhere with behavioral disturbance	Diagnosis	ICD-10-CM
F03.90	Unspecified dementia without behavioral disturbance	Diagnosis	ICD-10-CM
F03.91	Unspecified dementia with behavioral disturbance	Diagnosis	ICD-10-CM
F04	Amnesic disorder due to known physiological condition	Diagnosis	ICD-10-CM
F05	Delirium due to known physiological condition	Diagnosis	ICD-10-CM
F06.1	Catatonic disorder due to known physiological condition	Diagnosis	ICD-10-CM
F06.8	Other specified mental disorders due to known physiological condition	Diagnosis	ICD-10-CM
G13.8	Systemic atrophy primarily affecting central nervous system in other diseases classified elsewhere	Diagnosis	ICD-10-CM
G30.0	Alzheimer's disease with early onset	Diagnosis	ICD-10-CM
G30.1	Alzheimer's disease with late onset	Diagnosis	ICD-10-CM
G30.8	Other Alzheimer's disease	Diagnosis	ICD-10-CM
G30.9	Alzheimer's disease, unspecified	Diagnosis	ICD-10-CM
G31.01	Pick's disease	Diagnosis	ICD-10-CM
G31.09	Other frontotemporal dementia	Diagnosis	ICD-10-CM
G31.1	Senile degeneration of brain, not elsewhere classified	Diagnosis	ICD-10-CM
G31.2	Degeneration of nervous system due to alcohol	Diagnosis	ICD-10-CM
G94	Other disorders of brain in diseases classified elsewhere	Diagnosis	ICD-10-CM
R41.81	Age-related cognitive decline	Diagnosis	ICD-10-CM
R54	Age-related physical debility	Diagnosis	ICD-10-CM
<b>Parkinsons Disease</b>			
332.0	Paralysis agitans	Diagnosis	ICD-9-CM
332.1	Secondary Parkinsonism	Diagnosis	ICD-9-CM
G20	Parkinson's disease	Diagnosis	ICD-10-CM
G21.11	Neuroleptic induced parkinsonism	Diagnosis	ICD-10-CM
G21.19	Other drug induced secondary parkinsonism	Diagnosis	ICD-10-CM
G21.2	Secondary parkinsonism due to other external agents	Diagnosis	ICD-10-CM
G21.3	Postencephalitic parkinsonism	Diagnosis	ICD-10-CM
G21.4	Vascular parkinsonism	Diagnosis	ICD-10-CM
G21.8	Other secondary parkinsonism	Diagnosis	ICD-10-CM
G21.9	Secondary parkinsonism, unspecified	Diagnosis	ICD-10-CM
<b>COPD</b>			
490	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-9-CM
491.0	Simple chronic bronchitis	Diagnosis	ICD-9-CM
491.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-9-CM
491.20	Obstructive chronic bronchitis, without exacerbation	Diagnosis	ICD-9-CM
491.21	Obstructive chronic bronchitis, with (acute) exacerbation	Diagnosis	ICD-9-CM
491.22	Obstructive chronic bronchitis with acute bronchitis	Diagnosis	ICD-9-CM
491.8	Other chronic bronchitis	Diagnosis	ICD-9-CM
491.9	Unspecified chronic bronchitis	Diagnosis	ICD-9-CM
492.0	Emphysematous bleb	Diagnosis	ICD-9-CM
492.8	Other emphysema	Diagnosis	ICD-9-CM
494.0	Bronchiectasis without acute exacerbation	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
494.1	Bronchiectasis with acute exacerbation	Diagnosis	ICD-9-CM
496	Chronic airway obstruction, not elsewhere classified	Diagnosis	ICD-9-CM
J40	Bronchitis, not specified as acute or chronic	Diagnosis	ICD-10-CM
J41.0	Simple chronic bronchitis	Diagnosis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	Diagnosis	ICD-10-CM
J42	Unspecified chronic bronchitis	Diagnosis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	Diagnosis	ICD-10-CM
J43.1	Panlobular emphysema	Diagnosis	ICD-10-CM
J43.2	Centrilobular emphysema	Diagnosis	ICD-10-CM
J43.8	Other emphysema	Diagnosis	ICD-10-CM
J43.9	Emphysema, unspecified	Diagnosis	ICD-10-CM
J44.0	Chronic obstructive pulmonary disease with (acute) lower respiratory infection	Diagnosis	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	Diagnosis	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	Diagnosis	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	Diagnosis	ICD-10-CM
J47.1	Bronchiectasis with (acute) exacerbation	Diagnosis	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	Diagnosis	ICD-10-CM
<b>Malignancy</b>			
0073T	Compensator-based beam modulation treatment delivery of inverse planned treatment using 3 or more high resolution (milled or cast) compensator convergent beam modulated fields, per treatment session	Procedure	CPT-3
0182T	High dose rate electronic brachytherapy, per fraction	Procedure	CPT-3
0190T	Placement of intraocular radiation source applicator (List separately in addition to primary procedure)	Procedure	CPT-3
0347T	Placement of interstitial device(s) in bone for radiostereometric analysis (RSA)	Procedure	CPT-3
150	Malignant neoplasm of esophagus	Diagnosis	ICD-9-CM
150.0	Malignant neoplasm of cervical esophagus	Diagnosis	ICD-9-CM
150.1	Malignant neoplasm of thoracic esophagus	Diagnosis	ICD-9-CM
150.2	Malignant neoplasm of abdominal esophagus	Diagnosis	ICD-9-CM
150.3	Malignant neoplasm of upper third of esophagus	Diagnosis	ICD-9-CM
150.4	Malignant neoplasm of middle third of esophagus	Diagnosis	ICD-9-CM
150.5	Malignant neoplasm of lower third of esophagus	Diagnosis	ICD-9-CM
150.8	Malignant neoplasm of other specified part of esophagus	Diagnosis	ICD-9-CM
150.9	Malignant neoplasm of esophagus, unspecified site	Diagnosis	ICD-9-CM
153	Malignant neoplasm of colon	Diagnosis	ICD-9-CM
153.0	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-9-CM
153.1	Malignant neoplasm of transverse colon	Diagnosis	ICD-9-CM
153.2	Malignant neoplasm of descending colon	Diagnosis	ICD-9-CM
153.3	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-9-CM
153.4	Malignant neoplasm of cecum	Diagnosis	ICD-9-CM
153.5	Malignant neoplasm of appendix	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
153.6	Malignant neoplasm of ascending colon	Diagnosis	ICD-9-CM
153.7	Malignant neoplasm of splenic flexure	Diagnosis	ICD-9-CM
153.8	Malignant neoplasm of other specified sites of large intestine	Diagnosis	ICD-9-CM
153.9	Malignant neoplasm of colon, unspecified site	Diagnosis	ICD-9-CM
154.0	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-9-CM
154.1	Malignant neoplasm of rectum	Diagnosis	ICD-9-CM
154.2	Malignant neoplasm of anal canal	Diagnosis	ICD-9-CM
154.3	Malignant neoplasm of anus, unspecified site	Diagnosis	ICD-9-CM
154.8	Malignant neoplasm of other sites of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-9-CM
155	Malignant neoplasm of liver and intrahepatic bile ducts	Diagnosis	ICD-9-CM
155.0	Malignant neoplasm of liver, primary	Diagnosis	ICD-9-CM
155.1	Malignant neoplasm of intrahepatic bile ducts	Diagnosis	ICD-9-CM
157	Malignant neoplasm of pancreas	Diagnosis	ICD-9-CM
157.0	Malignant neoplasm of head of pancreas	Diagnosis	ICD-9-CM
157.1	Malignant neoplasm of body of pancreas	Diagnosis	ICD-9-CM
157.2	Malignant neoplasm of tail of pancreas	Diagnosis	ICD-9-CM
157.3	Malignant neoplasm of pancreatic duct	Diagnosis	ICD-9-CM
157.4	Malignant neoplasm of islets of Langerhans	Diagnosis	ICD-9-CM
157.8	Malignant neoplasm of other specified sites of pancreas	Diagnosis	ICD-9-CM
157.9	Malignant neoplasm of pancreas, part unspecified	Diagnosis	ICD-9-CM
162	Malignant neoplasm of trachea, bronchus, and lung	Diagnosis	ICD-9-CM
162.2	Malignant neoplasm of main bronchus	Diagnosis	ICD-9-CM
162.3	Malignant neoplasm of upper lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.4	Malignant neoplasm of middle lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.5	Malignant neoplasm of lower lobe, bronchus, or lung	Diagnosis	ICD-9-CM
162.8	Malignant neoplasm of other parts of bronchus or lung	Diagnosis	ICD-9-CM
162.9	Malignant neoplasm of bronchus and lung, unspecified site	Diagnosis	ICD-9-CM
172	Malignant melanoma of skin	Diagnosis	ICD-9-CM
172.0	Malignant melanoma of skin of lip	Diagnosis	ICD-9-CM
172.1	Malignant melanoma of skin of eyelid, including canthus	Diagnosis	ICD-9-CM
172.2	Malignant melanoma of skin of ear and external auditory canal	Diagnosis	ICD-9-CM
172.3	Malignant melanoma of skin of other and unspecified parts of face	Diagnosis	ICD-9-CM
172.4	Malignant melanoma of skin of scalp and neck	Diagnosis	ICD-9-CM
172.5	Malignant melanoma of skin of trunk, except scrotum	Diagnosis	ICD-9-CM
172.6	Malignant melanoma of skin of upper limb, including shoulder	Diagnosis	ICD-9-CM
172.7	Malignant melanoma of skin of lower limb, including hip	Diagnosis	ICD-9-CM
172.8	Malignant melanoma of other specified sites of skin	Diagnosis	ICD-9-CM
172.9	Melanoma of skin, site unspecified	Diagnosis	ICD-9-CM
174	Malignant neoplasm of female breast	Diagnosis	ICD-9-CM
174.0	Malignant neoplasm of nipple and areola of female breast	Diagnosis	ICD-9-CM
174.1	Malignant neoplasm of central portion of female breast	Diagnosis	ICD-9-CM
174.2	Malignant neoplasm of upper-inner quadrant of female breast	Diagnosis	ICD-9-CM
174.3	Malignant neoplasm of lower-inner quadrant of female breast	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
174.4	Malignant neoplasm of upper-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.5	Malignant neoplasm of lower-outer quadrant of female breast	Diagnosis	ICD-9-CM
174.6	Malignant neoplasm of axillary tail of female breast	Diagnosis	ICD-9-CM
174.8	Malignant neoplasm of other specified sites of female breast	Diagnosis	ICD-9-CM
174.9	Malignant neoplasm of breast (female), unspecified site	Diagnosis	ICD-9-CM
175	Malignant neoplasm of male breast	Diagnosis	ICD-9-CM
175.0	Malignant neoplasm of nipple and areola of male breast	Diagnosis	ICD-9-CM
175.9	Malignant neoplasm of other and unspecified sites of male breast	Diagnosis	ICD-9-CM
179	Malignant neoplasm of uterus, part unspecified	Diagnosis	ICD-9-CM
180	Malignant neoplasm of cervix uteri	Diagnosis	ICD-9-CM
180.0	Malignant neoplasm of endocervix	Diagnosis	ICD-9-CM
180.1	Malignant neoplasm of exocervix	Diagnosis	ICD-9-CM
180.8	Malignant neoplasm of other specified sites of cervix	Diagnosis	ICD-9-CM
180.9	Malignant neoplasm of cervix uteri, unspecified site	Diagnosis	ICD-9-CM
182	Malignant neoplasm of body of uterus	Diagnosis	ICD-9-CM
182.0	Malignant neoplasm of corpus uteri, except isthmus	Diagnosis	ICD-9-CM
182.1	Malignant neoplasm of isthmus	Diagnosis	ICD-9-CM
182.8	Malignant neoplasm of other specified sites of body of uterus	Diagnosis	ICD-9-CM
185	Malignant neoplasm of prostate	Diagnosis	ICD-9-CM
188	Malignant neoplasm of bladder	Diagnosis	ICD-9-CM
188.0	Malignant neoplasm of trigone of urinary bladder	Diagnosis	ICD-9-CM
188.1	Malignant neoplasm of dome of urinary bladder	Diagnosis	ICD-9-CM
188.2	Malignant neoplasm of lateral wall of urinary bladder	Diagnosis	ICD-9-CM
188.3	Malignant neoplasm of anterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.4	Malignant neoplasm of posterior wall of urinary bladder	Diagnosis	ICD-9-CM
188.5	Malignant neoplasm of bladder neck	Diagnosis	ICD-9-CM
188.6	Malignant neoplasm of ureteric orifice	Diagnosis	ICD-9-CM
188.7	Malignant neoplasm of urachus	Diagnosis	ICD-9-CM
188.8	Malignant neoplasm of other specified sites of bladder	Diagnosis	ICD-9-CM
188.9	Malignant neoplasm of bladder, part unspecified	Diagnosis	ICD-9-CM
189	Malignant neoplasm of kidney and other and unspecified urinary organs	Diagnosis	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
189.1	Malignant neoplasm of renal pelvis	Diagnosis	ICD-9-CM
19296	Placement of radiotherapy afterloading expandable catheter (single or multichannel) into the breast for interstitial radioelement application following partial mastectomy, includes imaging guidance; on date separate from partial mastectomy	Procedure	CPT-4
19297	Placement of radiotherapy afterloading expandable catheter (single or multichannel) into the breast for interstitial radioelement application following partial mastectomy, includes imaging guidance; concurrent with partial mastectomy (List separately in addition to code for primary procedure)	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
19298	Placement of radiotherapy after loading brachytherapy catheters (multiple tube and button type) into the breast for interstitial radioelement application following (at the time of or subsequent to) partial mastectomy, includes imaging guidance	Procedure	CPT-4
193	Malignant neoplasm of thyroid gland	Diagnosis	ICD-9-CM
194	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.0	Malignant neoplasm of adrenal gland	Diagnosis	ICD-9-CM
194.1	Malignant neoplasm of parathyroid gland	Diagnosis	ICD-9-CM
194.3	Malignant neoplasm of pituitary gland and craniopharyngeal duct	Diagnosis	ICD-9-CM
194.4	Malignant neoplasm of pineal gland	Diagnosis	ICD-9-CM
194.5	Malignant neoplasm of carotid body	Diagnosis	ICD-9-CM
194.6	Malignant neoplasm of aortic body and other paraganglia	Diagnosis	ICD-9-CM
194.8	Malignant neoplasm of other endocrine glands and related structures	Diagnosis	ICD-9-CM
194.9	Malignant neoplasm of endocrine gland, site unspecified	Diagnosis	ICD-9-CM
200	Lymphosarcoma and reticulosarcoma and other specified malignant tumors of lymphatic tissue	Diagnosis	ICD-9-CM
200.0	Reticulosarcoma	Diagnosis	ICD-9-CM
200.00	Reticulosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.01	Reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.02	Reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.03	Reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.04	Reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.05	Reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.06	Reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.07	Reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.08	Reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.1	Lymphosarcoma	Diagnosis	ICD-9-CM
200.10	Lymphosarcoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.11	Lymphosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.12	Lymphosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.13	Lymphosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.14	Lymphosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.15	Lymphosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.16	Lymphosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.17	Lymphosarcoma of spleen	Diagnosis	ICD-9-CM
200.18	Lymphosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.2	Burkitt's tumor or lymphoma	Diagnosis	ICD-9-CM
200.20	Burkitt's tumor or lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.21	Burkitt's tumor or lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.22	Burkitt's tumor or lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.23	Burkitt's tumor or lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.24	Burkitt's tumor or lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
200.25	Burkitt's tumor or lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.26	Burkitt's tumor or lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.27	Burkitt's tumor or lymphoma of spleen	Diagnosis	ICD-9-CM
200.28	Burkitt's tumor or lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.3	Marginal zone lymphoma	Diagnosis	ICD-9-CM
200.30	Marginal zone lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.31	Marginal zone lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.32	Marginal zone lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.33	Marginal zone lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.34	Marginal zone lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.35	Marginal zone lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.36	Marginal zone lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.37	Marginal zone lymphoma, spleen	Diagnosis	ICD-9-CM
200.38	Marginal zone lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.4	Mantle cell lymphoma	Diagnosis	ICD-9-CM
200.40	Mantle cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.41	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.42	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.43	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.44	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.45	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.46	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.47	Mantle cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.48	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.5	Primary central nervous system lymphoma	Diagnosis	ICD-9-CM
200.50	Primary central nervous system lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.51	Primary central nervous system lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.52	Primary central nervous system lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.53	Primary central nervous system lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.54	Primary central nervous system lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.55	Primary central nervous system lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.56	Primary central nervous system lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.57	Primary central nervous system lymphoma, spleen	Diagnosis	ICD-9-CM
200.58	Primary central nervous system lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.6	Anaplastic large cell lymphoma	Diagnosis	ICD-9-CM
200.60	Anaplastic large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.61	Anaplastic large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
200.62	Anaplastic large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.63	Anaplastic large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.64	Anaplastic large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.65	Anaplastic large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.66	Anaplastic large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.67	Anaplastic large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.68	Anaplastic large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.7	Large cell lymphoma	Diagnosis	ICD-9-CM
200.70	Large cell lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.71	Large cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.72	Large cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.73	Large cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.74	Large cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.75	Large cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.76	Large cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.77	Large cell lymphoma, spleen	Diagnosis	ICD-9-CM
200.78	Large cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-9-CM
200.8	Other named variants of lymphosarcoma and reticulosarcoma	Diagnosis	ICD-9-CM
200.80	Other named variants, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
200.81	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
200.82	Other named variants of lymphosarcoma and reticulosarcoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
200.83	Other named variants of lymphosarcoma and reticulosarcoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
200.84	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
200.85	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
200.86	Other named variants of lymphosarcoma and reticulosarcoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
200.87	Other named variants of lymphosarcoma and reticulosarcoma of spleen	Diagnosis	ICD-9-CM
200.88	Other named variants of lymphosarcoma and reticulosarcoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.0	Nodular lymphoma	Diagnosis	ICD-9-CM
202.00	Nodular lymphoma, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.01	Nodular lymphoma of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.02	Nodular lymphoma of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.03	Nodular lymphoma of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.04	Nodular lymphoma of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.05	Nodular lymphoma of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.06	Nodular lymphoma of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.07	Nodular lymphoma of spleen	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
202.08	Nodular lymphoma of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.1	Mycosis fungoides	Diagnosis	ICD-9-CM
202.10	Mycosis fungoides, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.11	Mycosis fungoides of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.12	Mycosis fungoides of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.13	Mycosis fungoides of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.14	Mycosis fungoides of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.15	Mycosis fungoides of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.16	Mycosis fungoides of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.17	Mycosis fungoides of spleen	Diagnosis	ICD-9-CM
202.18	Mycosis fungoides of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.2	Sezary's disease	Diagnosis	ICD-9-CM
202.20	Sezary's disease, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.21	Sezary's disease of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.22	Sezary's disease of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.23	Sezary's disease of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.24	Sezary's disease of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.25	Sezary's disease of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.26	Sezary's disease of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.27	Sezary's disease of spleen	Diagnosis	ICD-9-CM
202.28	Sezary's disease of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.4	Leukemic reticuloendotheliosis	Diagnosis	ICD-9-CM
202.40	Leukemic reticuloendotheliosis, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.41	Leukemic reticuloendotheliosis of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.42	Leukemic reticuloendotheliosis of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.43	Leukemic reticuloendotheliosis of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.44	Leukemic reticuloendotheliosis of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.45	Leukemic reticuloendotheliosis of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.46	Leukemic reticuloendotheliosis of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.47	Leukemic reticuloendotheliosis of spleen	Diagnosis	ICD-9-CM
202.48	Leukemic reticuloendotheliosis of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.8	Other malignant lymphomas	Diagnosis	ICD-9-CM
202.80	Other malignant lymphomas, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.81	Other malignant lymphomas of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.82	Other malignant lymphomas of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.83	Other malignant lymphomas of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.84	Other malignant lymphomas of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.85	Other malignant lymphomas of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.86	Other malignant lymphomas of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.87	Other malignant lymphomas of spleen	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
202.88	Other malignant lymphomas of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
202.9	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue	Diagnosis	ICD-9-CM
202.90	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue, unspecified site, extranodal and solid organ sites	Diagnosis	ICD-9-CM
202.91	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of head, face, and neck	Diagnosis	ICD-9-CM
202.92	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrathoracic lymph nodes	Diagnosis	ICD-9-CM
202.93	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intra-abdominal lymph nodes	Diagnosis	ICD-9-CM
202.94	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of axilla and upper limb	Diagnosis	ICD-9-CM
202.95	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of inguinal region and lower limb	Diagnosis	ICD-9-CM
202.96	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of intrapelvic lymph nodes	Diagnosis	ICD-9-CM
202.97	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of spleen	Diagnosis	ICD-9-CM
202.98	Other and unspecified malignant neoplasms of lymphoid and histiocytic tissue of lymph nodes of multiple sites	Diagnosis	ICD-9-CM
203.1	Plasma cell leukemia	Diagnosis	ICD-9-CM
203.10	Plasma cell leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
203.11	Plasma cell leukemia in remission	Diagnosis	ICD-9-CM
204.0	Acute lymphoid leukemia	Diagnosis	ICD-9-CM
204.00	Acute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.01	Acute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.1	Chronic lymphoid leukemia	Diagnosis	ICD-9-CM
204.10	Chronic lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.11	Chronic lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.2	Subacute lymphoid leukemia	Diagnosis	ICD-9-CM
204.20	Subacute lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.21	Subacute lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.8	Other lymphoid leukemia	Diagnosis	ICD-9-CM
204.80	Other lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.81	Other lymphoid leukemia in remission	Diagnosis	ICD-9-CM
204.9	Unspecified lymphoid leukemia	Diagnosis	ICD-9-CM
204.90	Unspecified lymphoid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
204.91	Unspecified lymphoid leukemia in remission	Diagnosis	ICD-9-CM
205	Myeloid leukemia	Diagnosis	ICD-9-CM
205.0	Acute myeloid leukemia	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
205.00	Acute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.01	Acute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.1	Chronic myeloid leukemia	Diagnosis	ICD-9-CM
205.10	Chronic myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.11	Chronic myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.2	Subacute myeloid leukemia	Diagnosis	ICD-9-CM
205.20	Subacute myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.21	Subacute myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.3	Myeloid sarcoma	Diagnosis	ICD-9-CM
205.30	Myeloid sarcoma, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.31	Myeloid sarcoma in remission	Diagnosis	ICD-9-CM
205.8	Other myeloid leukemia	Diagnosis	ICD-9-CM
205.80	Other myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.81	Other myeloid leukemia in remission	Diagnosis	ICD-9-CM
205.9	Unspecified myeloid leukemia	Diagnosis	ICD-9-CM
205.90	Unspecified myeloid leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
205.91	Unspecified myeloid leukemia in remission	Diagnosis	ICD-9-CM
20555	Placement of needles or catheters into muscle and/or soft tissue for subsequent interstitial radioelement application (at the time of or subsequent to the procedure)	Procedure	CPT-4
206	Monocytic leukemia	Diagnosis	ICD-9-CM
206.0	Acute monocytic leukemia	Diagnosis	ICD-9-CM
206.00	Acute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.01	Acute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.1	Chronic monocytic leukemia	Diagnosis	ICD-9-CM
206.10	Chronic monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.11	Chronic monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.2	Subacute monocytic leukemia	Diagnosis	ICD-9-CM
206.20	Subacute monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.21	Subacute monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.8	Other monocytic leukemia	Diagnosis	ICD-9-CM
206.80	Other monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.81	Other monocytic leukemia in remission	Diagnosis	ICD-9-CM
206.9	Unspecified monocytic leukemia	Diagnosis	ICD-9-CM
206.90	Unspecified monocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
206.91	Unspecified monocytic leukemia in remission	Diagnosis	ICD-9-CM
207	Other specified leukemia	Diagnosis	ICD-9-CM
207.0	Acute erythremia and erythroleukemia	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
207.00	Acute erythremia and erythroleukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.01	Acute erythremia and erythroleukemia in remission	Diagnosis	ICD-9-CM
207.1	Chronic erythremia	Diagnosis	ICD-9-CM
207.10	Chronic erythremia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.11	Chronic erythremia in remission	Diagnosis	ICD-9-CM
207.2	Megakaryocytic leukemia	Diagnosis	ICD-9-CM
207.20	Megakaryocytic leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.21	Megakaryocytic leukemia in remission	Diagnosis	ICD-9-CM
207.8	Other specified leukemia	Diagnosis	ICD-9-CM
207.80	Other specified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
207.81	Other specified leukemia in remission	Diagnosis	ICD-9-CM
208.0	Acute leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.00	Acute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.01	Acute leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.1	Chronic leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.10	Chronic leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.11	Chronic leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.2	Subacute leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.20	Subacute leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.21	Subacute leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.8	Other leukemia of unspecified cell type	Diagnosis	ICD-9-CM
208.80	Other leukemia of unspecified cell type, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.81	Other leukemia of unspecified cell type in remission	Diagnosis	ICD-9-CM
208.9	Unspecified leukemia	Diagnosis	ICD-9-CM
208.90	Unspecified leukemia, without mention of having achieved remission	Diagnosis	ICD-9-CM
208.91	Unspecified leukemia in remission	Diagnosis	ICD-9-CM
32553	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), percutaneous, intra-thoracic, single or multiple	Procedure	CPT-4
32701	Thoracic target(s) delineation for stereotactic body radiation therapy (SRS/SBRT), (photon or particle beam), entire course of treatment	Procedure	CPT-4
49327	Laparoscopy, surgical; with placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), intra-abdominal, intrapelvic, and/or retroperitoneum, including imaging guidance, if performed, single or multiple (List separately in addition to code for primary procedure)	Procedure	CPT-4
49411	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), percutaneous, intra-abdominal, intra-pelvic (except prostate), and/or retroperitoneum, single or multiple	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
49412	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), open, intra-abdominal, intrapelvic, and/or retroperitoneum, including image guidance, if performed, single or multiple (List separately in addition to code for primary procedure)	Procedure	CPT-4
51720	Bladder instillation of anticarcinogenic agent (including retention time)	Procedure	CPT-4
53220	Excision or fulguration of carcinoma of urethra	Procedure	CPT-4
55860	Exposure of prostate, any approach, for insertion of radioactive	Procedure	CPT-4
55862	EXPOS PROSTATE-INSRT RADIOACT; W/LYMPH NODE BX	Procedure	CPT-4
55865	EXPOSURE PROSTATE-INSRT RADIOACT; W/BILAT LYMPH	Procedure	CPT-4
55875	Transperineal placement of needles or catheters into prostate for interstitial radioelement application, with or without cystoscopy	Procedure	CPT-4
55876	Placement of interstitial device(s) for radiation therapy guidance (eg, fiducial markers, dosimeter), prostate (via needle, any approach), single or multiple	Procedure	CPT-4
55920	Placement of needles or catheters into pelvic organs and/or genitalia (except prostate) for subsequent interstitial radioelement application	Procedure	CPT-4
57155	Insertion of uterine tandem and/or vaginal ovoids for clinical brachytherapy	Procedure	CPT-4
58240	Pelvic exenteration for gynecologic malignancy, with total abdominal hysterectomy or cervicectomy, with or without removal of tube(s), with or without removal of ovary(s), with removal of bladder and ureteral transplantsations, and/or abdominoperineal resection of rectum and colon and colostomy, or any combination thereof	Procedure	CPT-4
58346	Insertion of Heyman capsules for clinical brachytherapy	Procedure	CPT-4
58943	Oophorectomy, partial or total, unilateral or bilateral; for ovarian, tubal or primary peritoneal malignancy, with para-aortic and pelvic lymph node biopsies, peritoneal washings, peritoneal biopsies, diaphragmatic assessments, with or without salpingectomy(s), with or without omentectomy	Procedure	CPT-4
58950	Resection of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy;	Procedure	CPT-4
58951	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with total abdominal hysterectomy, pelvic and limited para-aortic lymphadenectomy	Procedure	CPT-4
58952	Resection (initial) of ovarian, tubal or primary peritoneal malignancy with bilateral salpingo-oophorectomy and omentectomy; with radical dissection for debulking (ie, radical excision or destruction, intra-abdominal or retroperitoneal tumors)	Procedure	CPT-4
58956	Bilateral salpingo-oophorectomy with total omentectomy, total abdominal hysterectomy for malignancy	Procedure	CPT-4
58957	Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed;	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
58958	Resection (tumor debulking) of recurrent ovarian, tubal, primary peritoneal, uterine malignancy (intra-abdominal, retroperitoneal tumors), with omentectomy, if performed; with pelvic lymphadenectomy and limited para-aortic lymphadenectomy	Procedure	CPT-4
58960	Laparotomy, for staging or restaging of ovarian, tubal or primary peritoneal malignancy (second look), with or with omentectomy, peritoneal washing, biopsy of abdominal and pelvic peritoneum, diaphragmatic assessment with pelvic and limited para-aortic lymphadenectomy	Procedure	CPT-4
60252	THYROIDECTOMY TOT/SUBTL-MALIG; W/LTD NECK DISSEC	Procedure	CPT-4
60254	Thyroidectomy, total or subtotal for malignancy; with radical neck dissection	Procedure	CPT-4
61517	Implantation of brain intracavitary chemotherapy agent (List separately in addition to code for primary procedure)	Procedure	CPT-4
61770	Stereotactic localization, including burr hole(s), with insertion of catheter(s) or probe(s) for placement of radiation source	Procedure	CPT-4
61793	Stereotactic radiosurgery (particle beam, gamma ray or linear accelerator), one or more sessions	Procedure	CPT-4
67218	Destruction of localized lesion of retina (eg, macular edema, tumors), 1 or more sessions; radiation by implantation of source (includes removal of source)	Procedure	CPT-4
76873	Ultrasound, transrectal; prostate volume study for brachytherapy treatment planning (separate procedure)	Procedure	CPT-4
76950	Ultrasonic guidance for placement of radiation therapy fields	Procedure	CPT-4
76960	Ultrasonic guidance for placement of radiation therapy fields, except for B-scan echography	Procedure	CPT-4
76965	Ultrasonic guidance for interstitial radioelement application	Procedure	CPT-4
77014	Computed tomography guidance for placement of radiation therapy fields	Procedure	CPT-4
77261	Therapeutic radiology treatment planning; simple	Procedure	CPT-4
77262	Therapeutic radiology treatment planning; intermediate	Procedure	CPT-4
77263	Therapeutic radiology treatment planning; complex	Procedure	CPT-4
77280	Therapeutic radiology simulation-aided field setting; simple	Procedure	CPT-4
77285	Therapeutic radiology simulation-aided field setting; intermediate	Procedure	CPT-4
77290	Therapeutic radiology simulation-aided field setting; complex	Procedure	CPT-4
77295	THERAP RAD SIMULATION-AIDED FIELD SETTING; 3-D	Procedure	CPT-4
77299	Unlisted procedure, therapeutic radiology clinical treatment planning	Procedure	CPT-4
77300	Basic radiation dosimetry calculation, central axis depth dose, TDF, NSD, gap calculation, off axis factor, tissue inhomogeneity factors, as required during course of treatment, only when prescribed by the treating physician	Procedure	CPT-4
77301	Intensity modulated radiotherapy plan, including dose-volume histograms for target and critical structure partial tolerance specifications	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
77305	Teletherapy, isodose plan (whether hand or computer calculated); simple (1 or 2 parallel opposed unmodified ports directed to a single area of interest)	Procedure	CPT-4
77306	Teletherapy isodose plan; simple (1 or 2 unmodified ports directed to a single area of interest), includes basic dosimetry calculation(s)	Procedure	CPT-4
77307	Teletherapy isodose plan; complex (multiple treatment areas, tangential ports, the use of wedges, blocking, rotational beam, or special beam considerations), includes basic dosimetry calculation(s)	Procedure	CPT-4
77310	Teletherapy, isodose plan (whether hand or computer calculated); intermediate (3 or more treatment ports directed to a single area of interest)	Procedure	CPT-4
77315	Teletherapy, isodose plan (whether hand or computer calculated); complex (mantle or inverted Y, tangential ports, the use of wedges, compensators, complex blocking, rotational beam, or special beam considerations)	Procedure	CPT-4
77316	Brachytherapy isodose plan; simple (calculation[s] made from 1 to 4 sources, or remote afterloading brachytherapy, 1 channel), includes basic dosimetry calculation(s)	Procedure	CPT-4
77317	Brachytherapy isodose plan; intermediate (calculation[s] made from 5 to 10 sources, or remote afterloading brachytherapy, 2-12 channels), includes basic dosimetry calculation(s)	Procedure	CPT-4
77318	Brachytherapy isodose plan; complex (calculation[s] made from over 10 sources, or remote afterloading brachytherapy, over 12 channels), includes basic dosimetry calculation(s)	Procedure	CPT-4
77321	Special teletherapy port plan, particles, hemibody, total body	Procedure	CPT-4
77326	Brachytherapy isodose calculation; simple (calculation made from single plane, one to four sources/ ribbon application, remote afterloading brachytherapy, 1 to 8 sources)	Procedure	CPT-4
77327	Brachytherapy isodose calculation; intermediate (multiplane dosage calculations, application involving 5 to 10 sources/ribbons, remote afterloading brachytherapy, 9 to 12 sources)	Procedure	CPT-4
77328	Brachytherapy isodose calculation; complex (multiplane isodose plan, volume implant calculations, over 10 sources/ribbons used, special spatial reconstruction, remote afterloading brachytherapy, over 12 sources)	Procedure	CPT-4
77331	Special dosimetry (eg, TLD, microdosimetry) (specify), only when prescribed by the treating physician	Procedure	CPT-4
77332	Treatment devices, design and construction; simple (simple block, simple bolus)	Procedure	CPT-4
77333	Treatment devices, design and construction; intermediate (multiple blocks, stents, bite blocks, special bolus)	Procedure	CPT-4
77334	Treatment devices, design and construction; complex (irregular blocks, special shields, compensators, wedges, molds or casts)	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
77336	Continuing medical physics consultation, including assessment of treatment parameters, quality assurance of dose delivery, and review of patient treatment documentation in support of the radiation oncologist, reported per week of therapy	Procedure	CPT-4
77338	Multi-leaf collimator (MLC) device(s) for intensity modulated radiation therapy (IMRT), design and construction per IMRT plan	Procedure	CPT-4
77370	Special medical radiation physics consultation	Procedure	CPT-4
77371	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; multi-source Cobalt 60 based	Procedure	CPT-4
77372	Radiation treatment delivery, stereotactic radiosurgery (SRS), complete course of treatment of cranial lesion(s) consisting of 1 session; linear accelerator based	Procedure	CPT-4
77373	Stereotactic body radiation therapy, treatment delivery, per fraction to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	Procedure	CPT-4
77380	Proton beam delivery to a single treatment area, single port, custom block, with or without compensation, with treatment set-up and verification images	Procedure	CPT-4
77381	Proton beam treatment to one or two treatment areas, two or more ports, two or more custom blocks, and two or more compensators, with treatment set-up and verification images	Procedure	CPT-4
77385	Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; simple	Procedure	CPT-4
77386	Intensity modulated radiation treatment delivery (IMRT), includes guidance and tracking, when performed; complex	Procedure	CPT-4
77387	Guidance for localization of target volume for delivery of radiation treatment, includes intrafraction tracking, when performed	Procedure	CPT-4
77399	Unlisted procedure, medical radiation physics, dosimetry and treatment devices, and special services	Procedure	CPT-4
77401	Radiation treatment delivery, superficial and/or ortho voltage	Procedure	CPT-4
77402	Radiation treatment delivery, => 1 MeV; simple	Procedure	CPT-4
77403	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 6-10 MeV	Procedure	CPT-4
77404	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 11-19 MeV	Procedure	CPT-4
77406	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks; 20 MeV or greater	Procedure	CPT-4
77407	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; up to 5 MeV	Procedure	CPT-4
77408	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 6-10 MeV	Procedure	CPT-4
77409	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 11-19 MeV	Procedure	CPT-4



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
77411	Radiation treatment delivery, 2 separate treatment areas, 3 or more ports on a single treatment area, use of multiple blocks; 20 MeV or greater	Procedure	CPT-4
77412	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, special particle beam (eg, electron or neutrons); up to 5 MeV	Procedure	CPT-4
77413	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, special particle beam (eg, electron or neutrons); 6-10 MeV	Procedure	CPT-4
77414	Radiation treatment delivery, 3 or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 MeV	Procedure	CPT-4
77416	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, special particle beam (eg, electron or neutrons); 20 MeV or greater	Procedure	CPT-4
77417	Therapeutic radiology port film(s)	Procedure	CPT-4
77418	Intensity modulated treatment delivery, single or multiple fields/arcs, via narrow spatially and temporally modulated beams, binary, dynamic MLC, per treatment session	Procedure	CPT-4
77419	Weekly radiation therapy management; conformal	Procedure	CPT-4
77420	WK RAD THERAP MGMT; SIMPL	Procedure	CPT-4
77421	Stereoscopic X-ray guidance for localization of target volume for the delivery of radiation therapy	Procedure	CPT-4
77422	High energy neutron radiation treatment delivery; single treatment area using a single port or parallel-opposed ports with no blocks or simple blocking	Procedure	CPT-4
77423	High energy neutron radiation treatment delivery, 1 or more isocenter(s) with coplanar or non-coplanar geometry with blocking and/or wedge, and/or compensator(s)	Procedure	CPT-4
77424	Intraoperative radiation treatment delivery, x-ray, single treatment session	Procedure	CPT-4
77425	Intraoperative radiation treatment delivery, electrons, single treatment session	Procedure	CPT-4
77427	Radiation treatment management, 5 treatments	Procedure	CPT-4
77430	WK RAD THERAP MGMT; COMPLX	Procedure	CPT-4
77431	Radiation therapy management with complete course of therapy consisting of 1 or 2 fractions only	Procedure	CPT-4
77432	Stereotactic radiation treatment management of cranial lesion(s) (complete course of treatment consisting of 1 session)	Procedure	CPT-4
77435	Stereotactic body radiation therapy, treatment management, per treatment course, to 1 or more lesions, including image guidance, entire course not to exceed 5 fractions	Procedure	CPT-4
77469	Intraoperative radiation treatment management	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
77470	Special treatment procedure (eg, total body irradiation, hemibody irradiation, per oral, vaginal cone irradiation)	Procedure	CPT-4
77499	Unlisted procedure, therapeutic radiology treatment management	Procedure	CPT-4
77520	Proton treatment delivery; simple, without compensation	Procedure	CPT-4
77522	Proton treatment delivery; simple, with compensation	Procedure	CPT-4
77523	Proton treatment delivery; intermediate	Procedure	CPT-4
77525	Proton treatment delivery; complex	Procedure	CPT-4
77600	Hyperthermia, externally generated; superficial (ie, heating to a depth of 4 cm or less)	Procedure	CPT-4
77605	Hyperthermia, externally generated; deep (ie, heating to depths greater than 4 cm)	Procedure	CPT-4
77610	Hyperthermia generated by interstitial probe(s); 5 or fewer interstitial applicators	Procedure	CPT-4
77615	Hyperthermia generated by interstitial probe(s); more than 5 interstitial applicators	Procedure	CPT-4
77620	Hyperthermia generated by intracavitary probe(s)	Procedure	CPT-4
77750	Infusion or instillation of radioelement solution	Procedure	CPT-4
77761	Intracavitary radioelement application; simple	Procedure	CPT-4
77762	Intracavitary radiation source application; intermediate	Procedure	CPT-4
77763	Intracavitary radioelement application; complex	Procedure	CPT-4
77776	Interstitial radiation source application; simple	Procedure	CPT-4
77777	Interstitial radioelement application; intermediate	Procedure	CPT-4
77778	Interstitial radioelement application; complex	Procedure	CPT-4
77781	Remote afterloading high intensity brachytherapy; 1-4 source positions or catheters	Procedure	CPT-4
77782	Remote afterloading high intensity brachytherapy; 5-8 source positions or catheters	Procedure	CPT-4
77783	Remote afterloading high intensity brachytherapy; 9-12 source positions or catheters	Procedure	CPT-4
77784	Remote afterloading high intensity brachytherapy; over 12 source positions or catheters	Procedure	CPT-4
77785	Remote afterloading high dose rate radionuclide brachytherapy; 1	Procedure	CPT-4
77786	Remote afterloading high dose rate radionuclide brachytherapy; 2-12 channels	Procedure	CPT-4
77787	Remote afterloading high dose rate radionuclide brachytherapy; over 12 channels	Procedure	CPT-4
77789	Surface application of radioelement	Procedure	CPT-4
77790	Supervision, handling, loading of radioelement	Procedure	CPT-4
77799	Unlisted procedure, clinical brachytherapy	Procedure	CPT-4
78015	Thyroid carcinoma metastases imaging; limited area (eg, neck and chest only)	Procedure	CPT-4
78016	Thyroid carcinoma metastases imaging; with additional studies (eg, urinary recovery)	Procedure	CPT-4
78018	Thyroid carcinoma metastases imaging; whole body	Procedure	CPT-4



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
78020	Thyroid carcinoma metastases uptake (List separately in addition to code for primary procedure)	Procedure	CPT-4
79200	Intracavitary radioactive colloid therapy	Procedure	CPT-4
79300	Radiopharmaceutical therapy, by interstitial radioactive colloid administration	Procedure	CPT-4
79440	INTRA-ARTICULAR RADIOPHARM THERAP	Procedure	CPT-4
79999	Radiopharmaceutical therapy, unlisted procedure	Procedure	CPT-4
90586	Bacillus Calmette-Guerin vaccine (BCG) for bladder cancer, live, for intravesical use	Procedure	CPT-4
92974	Transcatheter placement of radiation delivery device for subsequent coronary intravascular brachytherapy (List separately in addition to code for primary procedure)	Procedure	CPT-4
96400	Chemotherapy administration, subcutaneous or intramuscular, with or without local anesthesia	Procedure	CPT-4
96401	Chemotherapy administration, subcutaneous or intramuscular; non-hormonal anti-neoplastic	Procedure	CPT-4
96402	Chemotherapy administration, subcutaneous or intramuscular; hormonal anti-neoplastic	Procedure	CPT-4
96405	Chemotherapy administration, intralesional; up to and including 7 lesions	Procedure	CPT-4
96406	Chemotherapy administration, intralesional; more than 7 lesions	Procedure	CPT-4
96408	Chemotherapy administration, intravenous; push technique	Procedure	CPT-4
96409	Chemotherapy administration; intravenous, push technique, single or initial substance/drug	Procedure	CPT-4
96410	Chemotherapy administration, intravenous; infusion technique, up to one hour	Procedure	CPT-4
96411	Chemotherapy administration; intravenous, push technique, each additional substance/drug (List separately in addition to code for primary procedure)	Procedure	CPT-4
96412	Chemotherapy administration, intravenous; infusion technique, one to 8 hours, each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96413	Chemotherapy administration, intravenous infusion technique; up to 1 hour, single or initial substance/drug	Procedure	CPT-4
96414	Chemotherapy administration, intravenous; infusion technique, initiation of prolonged infusion (more than 8 hours), requiring the use of a portable or implantable pump	Procedure	CPT-4
96415	Chemotherapy administration, intravenous infusion technique; each additional hour (List separately in addition to code for primary procedure)	Procedure	CPT-4
96416	Chemotherapy administration, intravenous infusion technique; initiation of prolonged chemotherapy infusion (more than 8 hours), requiring use of a portable or implantable pump	Procedure	CPT-4
96417	Chemotherapy administration, intravenous infusion technique; each additional sequential infusion (different substance/drug), up to 1 hour (List separately in addition to code for primary procedure)	Procedure	CPT-4

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
96420	CHEMOTX ADMIN INTRA-ART; PUSH TECH	Procedure	CPT-4
96422	CHEMOTX ADMIN INTRA-ART; INFUSION TECH TO 1 HR	Procedure	CPT-4
96423	Chemotherapy administration, intra-arterial; infusion technique, each additional hour up to 8 hours (List separately in addition to code for primary procedure)	Procedure	CPT-4
96425	Chemotherapy administration, intra-arterial; infusion technique, initiation of prolonged infusion (more than 8 hours), requiring the use of a portable or implantable pump	Procedure	CPT-4
96440	CHEMOTX-PLEURAL CAVITY-REQ & INCL THORACENTESIS	Procedure	CPT-4
96445	Chemotherapy administration into peritoneal cavity, requiring and including peritoneocentesis	Procedure	CPT-4
96446	Chemotherapy administration into the peritoneal cavity via indwelling port or catheter	Procedure	CPT-4
96450	Chemotherapy administration, into CNS (eg, intrathecal), requiring and including spinal puncture	Procedure	CPT-4
96520	Refilling and maintenance of portable pump	Procedure	CPT-4
96521	Refilling and maintenance of portable pump	Procedure	CPT-4
96522	Refilling and maintenance of implantable pump or reservoir for drug delivery, systemic (eg, intravenous, intra-arterial)	Procedure	CPT-4
96523	Irrigation of implanted venous access device for drug delivery systems	Procedure	CPT-4
96530	Refilling and maintenance of implantable pump or reservoir for drug delivery, systemic (eg, intravenous, intra-arterial)	Procedure	CPT-4
96542	CHEMOTX INJ SUBARACH/INTRAVENTRIC-1/MX AGENTS	Procedure	CPT-4
96545	Provision of chemotherapy agent	Procedure	CPT-4
96549	UNLISTED CHEMOTX PROC	Procedure	CPT-4
99555	Home infusion for chemotherapy, per visit	Procedure	CPT-4
A4555	Electrode/transducer for use with electrical stimulation device used for cancer treatment, replacement only	Procedure	HCPCS
A4650	Implantable radiation dosimeter, each	Procedure	HCPCS
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

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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	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	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female	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
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



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C82.18	Follicular lymphoma grade II, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.19	Follicular lymphoma grade II, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.20	Follicular lymphoma grade III, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.21	Follicular lymphoma grade III, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.22	Follicular lymphoma grade III, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.23	Follicular lymphoma grade III, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.24	Follicular lymphoma grade III, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.25	Follicular lymphoma grade III, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.26	Follicular lymphoma grade III, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.27	Follicular lymphoma grade III, unspecified, spleen	Diagnosis	ICD-10-CM
C82.28	Follicular lymphoma grade III, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.29	Follicular lymphoma grade III, unspecified, extranodal and solid organ	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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	Diagnosis	ICD-10-CM
C82.65	Cutaneous follicle center lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.66	Cutaneous follicle center lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.67	Cutaneous follicle center lymphoma, spleen	Diagnosis	ICD-10-CM
C82.68	Cutaneous follicle center lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.69	Cutaneous follicle center lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.80	Other types of follicular lymphoma, unspecified site	Diagnosis	ICD-10-CM
C82.81	Other types of follicular lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C82.82	Other types of follicular lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C82.83	Other types of follicular lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C82.84	Other types of follicular lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C82.85	Other types of follicular lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C82.86	Other types of follicular lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C82.87	Other types of follicular lymphoma, spleen	Diagnosis	ICD-10-CM
C82.88	Other types of follicular lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C82.89	Other types of follicular lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C82.90	Follicular lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C82.91	Follicular lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
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	Diagnosis	ICD-10-CM
C83.06	Small cell B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C83.07	Small cell B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.08	Small cell B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.09	Small cell B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.10	Mantle cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.11	Mantle cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.12	Mantle cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.13	Mantle cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.14	Mantle cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.15	Mantle cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.16	Mantle cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.17	Mantle cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.18	Mantle cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.19	Mantle cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.30	Diffuse large B-cell lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.31	Diffuse large B-cell lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.32	Diffuse large B-cell lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.33	Diffuse large B-cell lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.34	Diffuse large B-cell lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.35	Diffuse large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C83.36	Diffuse large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C83.37	Diffuse large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C83.38	Diffuse large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C83.39	Diffuse large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C83.50	Lymphoblastic (diffuse) lymphoma, unspecified site	Diagnosis	ICD-10-CM
C83.51	Lymphoblastic (diffuse) lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C83.52	Lymphoblastic (diffuse) lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C83.53	Lymphoblastic (diffuse) lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C83.54	Lymphoblastic (diffuse) lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C83.55	Lymphoblastic (diffuse) lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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 neck	Diagnosis	ICD-10-CM
C84.62	Anaplastic large cell lymphoma, ALK-positive, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.63	Anaplastic large cell lymphoma, ALK-positive, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.64	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.65	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.66	Anaplastic large cell lymphoma, ALK-positive, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.67	Anaplastic large cell lymphoma, ALK-positive, spleen	Diagnosis	ICD-10-CM
C84.68	Anaplastic large cell lymphoma, ALK-positive, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.69	Anaplastic large cell lymphoma, ALK-positive, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C84.70	Anaplastic large cell lymphoma, ALK-negative, unspecified site	Diagnosis	ICD-10-CM
C84.71	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C84.72	Anaplastic large cell lymphoma, ALK-negative, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C84.73	Anaplastic large cell lymphoma, ALK-negative, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C84.74	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C84.75	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C84.76	Anaplastic large cell lymphoma, ALK-negative, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C84.77	Anaplastic large cell lymphoma, ALK-negative, spleen	Diagnosis	ICD-10-CM
C84.78	Anaplastic large cell lymphoma, ALK-negative, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C84.79	Anaplastic large cell lymphoma, ALK-negative, extranodal and solid organ sites	Diagnosis	ICD-10-CM
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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 F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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 limb	Diagnosis	ICD-10-CM
C85.25	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.26	Mediastinal (thymic) large B-cell lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.27	Mediastinal (thymic) large B-cell lymphoma, spleen	Diagnosis	ICD-10-CM
C85.28	Mediastinal (thymic) large B-cell lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.29	Mediastinal (thymic) large B-cell lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.80	Other specified types of non-Hodgkin lymphoma, unspecified site	Diagnosis	ICD-10-CM
C85.81	Other specified types of non-Hodgkin lymphoma, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.82	Other specified types of non-Hodgkin lymphoma, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.83	Other specified types of non-Hodgkin lymphoma, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.84	Other specified types of non-Hodgkin lymphoma, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.85	Other specified types of non-Hodgkin lymphoma, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.86	Other specified types of non-Hodgkin lymphoma, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.87	Other specified types of non-Hodgkin lymphoma, spleen	Diagnosis	ICD-10-CM
C85.88	Other specified types of non-Hodgkin lymphoma, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.89	Other specified types of non-Hodgkin lymphoma, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C85.90	Non-Hodgkin lymphoma, unspecified, unspecified site	Diagnosis	ICD-10-CM
C85.91	Non-Hodgkin lymphoma, unspecified, lymph nodes of head, face, and neck	Diagnosis	ICD-10-CM
C85.92	Non-Hodgkin lymphoma, unspecified, intrathoracic lymph nodes	Diagnosis	ICD-10-CM
C85.93	Non-Hodgkin lymphoma, unspecified, intra-abdominal lymph nodes	Diagnosis	ICD-10-CM
C85.94	Non-Hodgkin lymphoma, unspecified, lymph nodes of axilla and upper limb	Diagnosis	ICD-10-CM
C85.95	Non-Hodgkin lymphoma, unspecified, lymph nodes of inguinal region and lower limb	Diagnosis	ICD-10-CM
C85.96	Non-Hodgkin lymphoma, unspecified, intrapelvic lymph nodes	Diagnosis	ICD-10-CM
C85.97	Non-Hodgkin lymphoma, unspecified, spleen	Diagnosis	ICD-10-CM
C85.98	Non-Hodgkin lymphoma, unspecified, lymph nodes of multiple sites	Diagnosis	ICD-10-CM
C85.99	Non-Hodgkin lymphoma, unspecified, extranodal and solid organ sites	Diagnosis	ICD-10-CM
C86.0	Extranodal NK/T-cell lymphoma, nasal type	Diagnosis	ICD-10-CM
C86.1	Hepatosplenic T-cell lymphoma	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
C8953	Chemotherapy administration, intravenous; push technique	Procedure	HCPCS
C8954	Chemotherapy administration, intravenous; infusion technique, up to one hour	Procedure	HCPCS
C8955	Chemotherapy administration, intravenous; infusion technique, each additional hour (List separately in addition to C8954)	Procedure	HCPCS
C90.10	Plasma cell leukemia not having achieved remission	Diagnosis	ICD-10-CM
C90.11	Plasma cell leukemia in remission	Diagnosis	ICD-10-CM
C9021	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
C9025	Injection, ramucirumab, 5 mg	Procedure	HCPCS
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	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
C91.20	Other lymphoid leukemia not having achieved remission	Diagnosis	ICD-10-CM
C91.21	Other lymphoid leukemia, in remission	Diagnosis	ICD-10-CM
C9131	Injection, ado-trastuzumab emtansine, 1 mg	Procedure	HCPCS
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
C9259	Injection, pralatrexate, 1 mg	Procedure	HCPCS
C9260	Injection, ofatumumab, 10 mg	Procedure	HCPCS
C9262	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
C9265	Injection, romidepsin, 1 mg	Procedure	HCPCS
C9273	Sipuleucel-T, minimum of 50 million autologous CD54+ cells activated with PAP-GM-CSF, including leukapheresis and all other preparatory procedures, per infusion	Procedure	HCPCS
C9276	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
C9280	Injection, eribulin mesylate, 1 mg	Procedure	HCPCS
C9284	Injection, ipilimumab, 1 mg	Procedure	HCPCS
C9287	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
C9289	Injection, asparaginase Erwinia chrysanthemi, 1,000 IU	Procedure	HCPCS
C9292	Injection, pertuzumab, 10 mg	Procedure	HCPCS
C9295	Injection, carfilzomib, 1 mg	Procedure	HCPCS
C9296	Injection, ziv-aflibercept, 1 mg	Procedure	HCPCS
C9297	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
C9414	Etoposide; oral, 50 mg, brand name	Procedure	HCPCS
C9415	Doxorubicin HCl, 10 mg, brand name	Procedure	HCPCS
C9416	BCG (intravesical) per instillation, brand name	Procedure	HCPCS
C9417	Bleomycin sulfate, 15 units, brand name	Procedure	HCPCS
C9418	Cisplatin, powder or solution, per 10 mg, brand name	Procedure	HCPCS
C9419	Injection, cladribine, per 1 mg, brand name	Procedure	HCPCS
C9420	Cyclophosphamide, 100 mg, brand name	Procedure	HCPCS
C9421	Cyclophosphamide, lyophilized, 100 mg, brand name	Procedure	HCPCS
C9422	Cytarabine, 100 mg, brand name	Procedure	HCPCS
C9423	Dacarbazine, 100 mg, brand name	Procedure	HCPCS
C9424	Daunorubicin, 10 mg	Procedure	HCPCS
C9425	Etoposide, 10 mg, brand name	Procedure	HCPCS
C9426	Floxuridine, 500 mg, brand name	Procedure	HCPCS
C9427	Ifosfamide, 1 gm, brand name	Procedure	HCPCS
C9428	Mesna, 200 mg, brand name	Procedure	HCPCS
C9429	Idarubicin HCl, 5 mg, brand name	Procedure	HCPCS
C9430	Leuprolide acetate, per 1 mg, brand name	Procedure	HCPCS
C9431	Paclitaxel, 30 mg, brand name	Procedure	HCPCS
C9432	Mitomycin, 5 mg, brand name	Procedure	HCPCS
C9433	Thiotepa, 15 mg, brand name	Procedure	HCPCS
C9434	Supply of radiopharmaceutical diagnostic imaging agent, Gallium Ga 67, per mci, brand name	Procedure	HCPCS
C9435	Injection, gonadorelin HCl, brand name, per 100 mcg	Procedure	HCPCS
C9436	Azathioprine, parenteral, brand name, per 100 mg	Procedure	HCPCS
C9437	Carmustine, brand name, 100 mg	Procedure	HCPCS
C9442	Injection, belinostat, 10 mg	Procedure	HCPCS
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



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C9725	Placement of endorectal intracavitary applicator for high intensity brachytherapy	Procedure	HCPCS
C9726	Placement and removal (if performed) of applicator into breast for intraoperative radiation therapy, add-on to primary breast procedure	Procedure	HCPCS
C9728	Placement of interstitial device(s) for radiation therapy/surgery guidance (e.g., fiducial markers, dosimeter), for other than the following sites (any approach): abdomen, pelvis, prostate, retroperitoneum, thorax, single or multiple	Procedure	HCPCS
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
D4381	localized delivery of antimicrobial agents via a controlled release vehicle into diseased crevicular tissue, per tooth	Procedure	HCPCS
D5983	radiation carrier	Procedure	HCPCS
D5984	radiation shield	Procedure	HCPCS
D5985	radiation cone locator	Procedure	HCPCS
E0766	Electrical stimulation device used for cancer treatment, includes all accessories, any type	Procedure	HCPCS
G0210	PET imaging whole body; diagnosis; lung cancer, nonsmall cell	Procedure	HCPCS
G0211	PET imaging whole body; initial staging; lung cancer; nonsmall cell	Procedure	HCPCS
G0212	PET imaging whole body; restaging; lung cancer; nonsmall	Procedure	HCPCS
G0215	PET imaging whole body; restaging; colorectal cancer	Procedure	HCPCS
G0223	PET imaging whole body or regional; diagnosis; head and neck cancer; excluding thyroid and CNS cancers	Procedure	HCPCS
G0224	PET imaging whole body or regional; initial staging; head and neck cancer; excluding thyroid and CNS cancers	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G0225	PET imaging whole body or regional; restaging; head and neck cancer, excluding thyroid and CNS cancers	Procedure	HCPCS
G0226	PET imaging whole body; diagnosis; esophageal cancer	Procedure	HCPCS
G0227	PET imaging whole body; initial staging; esophageal cancer	Procedure	HCPCS
G0228	PET imaging whole body; restaging; esophageal cancer	Procedure	HCPCS
G0231	PET, whole body, for recurrence of colorectal or colorectal metastatic cancer; gamma cameras only	Procedure	HCPCS
G0233	PET, whole body, for recurrence of melanoma; gamma cameras only	Procedure	HCPCS
G0234	PET, regional or whole body, for solitary pulmonary nodule following CT or for initial staging of pathologically diagnosed nonsmall cell lung cancer; gamma cameras only	Procedure	HCPCS
G0252	PET imaging, full and partial-ring PET scanners only, for initial diagnosis of breast cancer and/or surgical planning for breast cancer (e.g., initial staging of axillary lymph nodes)	Procedure	HCPCS
G0253	PET imaging for breast cancer, full and partial-ring PET scanners only, staging/restaging of local regional recurrence or distant metastases (i.e., staging/restaging after or prior to course of treatment)	Procedure	HCPCS
G0254	PET imaging for breast cancer, full and partial ring PET scanners only, evaluation of response to treatment, performed during course of treatment	Procedure	HCPCS
G0292	Administration(s) of experimental drug(s) only in a Medicare qualifying clinical trial (includes administration for chemotherapy and other types of therapy via infusion and/or other than infusion), per day	Procedure	HCPCS
G0296	Counseling visit to discuss need for lung cancer screening using low dose CT scan (LDCT) (service is for eligibility determination and shared decision making)	Procedure	HCPCS
G0355	Chemotherapy administration, subcutaneous or intramuscular nonhormonal antineoplastic	Procedure	HCPCS
G0359	Chemotherapy administration, intravenous infusion technique; up to one hour, single or initial substance/drug	Procedure	HCPCS
G0361	Initiation of prolonged chemotherapy infusion (more than eight hours), requiring use of a portable or implantable pump	Procedure	HCPCS
G0458	Low dose rate (LDR) prostate brachytherapy services, composite rate	Procedure	HCPCS
G0464	Colorectal cancer screening; stool-based DNA and fecal occult hemoglobin (e.g., KRAS, NDRG4 and BMP3)	Procedure	HCPCS
G6001	Ultrasonic guidance for placement of radiation therapy fields	Procedure	HCPCS
G6002	Stereoscopic x-ray guidance for localization of target volume for the delivery of radiation therapy	Procedure	HCPCS
G6003	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: up to 5 mev	Procedure	HCPCS
G6004	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 6-10 mev	Procedure	HCPCS
G6005	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 11-19 mev	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G6006	Radiation treatment delivery, single treatment area, single port or parallel opposed ports, simple blocks or no blocks: 20 mev or greater	Procedure	HCPCS
G6007	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: up to 5 mev	Procedure	HCPCS
G6008	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 6-10 mev	Procedure	HCPCS
G6009	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 11-19 mev	Procedure	HCPCS
G6010	Radiation treatment delivery, two separate treatment areas, three or more ports on a single treatment area, use of multiple blocks: 20 mev or greater	Procedure	HCPCS
G6011	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; up to 5 mev	Procedure	HCPCS
G6012	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 6-10 mev	Procedure	HCPCS
G6013	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 11-19 mev	Procedure	HCPCS
G6014	Radiation treatment delivery, three or more separate treatment areas, custom blocking, tangential ports, wedges, rotational beam, compensators, electron beam; 20 mev or greater	Procedure	HCPCS
G6015	Intensity modulated treatment delivery, single or multiple fields/arcs, via narrow spatially and temporally modulated beams, binary, dynamic MLC, per treatment session	Procedure	HCPCS
G6016	Compensator-based beam modulation treatment delivery of inverse planned treatment using three or more high resolution (milled or cast) compensator, convergent beam modulated fields, per treatment session	Procedure	HCPCS
G6017	Intra-fraction localization and tracking of target or patient motion during delivery of radiation therapy (e.g., 3D positional tracking, gating, 3D surface tracking), each fraction of treatment	Procedure	HCPCS
G8371	Chemotherapy documented as not received or prescribed for Stage III colon cancer patients	Procedure	HCPCS
G8372	Chemotherapy documented as received or prescribed for Stage III colon cancer patients	Procedure	HCPCS
G8373	Chemotherapy plan documented prior to chemotherapy administration	Procedure	HCPCS
G8374	Chemotherapy plan not documented prior to chemotherapy administration	Procedure	HCPCS
G8376	Clinician documentation that breast cancer patient was not eligible for tamoxifen or aromatase inhibitor therapy measure	Procedure	HCPCS
G8377	Clinician documentation that colon cancer patient is not eligible for chemotherapy measure	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G8379	Documentation of radiation therapy recommended within 12 months of first office visit	Procedure	HCPCS
G8380	For patients with ER or PR positive, Stage IC-III breast cancer, clinician did not document that the patient received or was prescribed tamoxifen or aromatase inhibitor	Procedure	HCPCS
G8381	For patients with ER or PR positive, Stage IC-III breast cancer, clinician documented or prescribed that the patient is receiving tamoxifen or aromatase inhibitor	Procedure	HCPCS
G8389	Myelodysplastic syndrome (MDS) patients with no documentation of iron stores prior to receiving erythropoietin therapy	Procedure	HCPCS
G8464	Clinician documented that prostate cancer patient is not an eligible candidate for adjuvant hormonal therapy; low or intermediate risk of recurrence or risk of recurrence not determined	Procedure	HCPCS
G8465	High or very high risk of recurrence of prostate cancer	Procedure	HCPCS
G8518	Clinical stage prior to surgery for lung cancer and esophageal cancer resection was recorded	Procedure	HCPCS
G8519	Clinician documented that patient was not eligible for clinical stage prior to surgery for lung cancer and esophageal cancer resection measure	Procedure	HCPCS
G8520	Clinician stage prior to surgery for lung cancer and esophageal cancer resection was not recorded, reason not specified	Procedure	HCPCS
G8875	Clinician diagnosed breast cancer preoperatively by a minimally invasive biopsy method	Procedure	HCPCS
G8881	Stage of breast cancer is greater than T1N0M0 or T2N0M0	Procedure	HCPCS
G8927	Adjuvant chemotherapy referred, prescribed or previously received for AJCC stage III, colon cancer	Procedure	HCPCS
G8944	AJCC melanoma cancer stage 0 through IIC melanoma	Procedure	HCPCS
G9021	Chemotherapy assessment for nausea and/or vomiting, patient reported, performed at the time of chemotherapy administration; assessment Level 1: not at all (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9022	Chemotherapy assessment for nausea and/or vomiting, patient reported, performed at the time of chemotherapy administration; assessment Level 2: a little (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9023	Chemotherapy assessment for nausea and/or vomiting, patient reported, performed at the time of chemotherapy administration; assessment Level 3: quite a bit (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9024	Chemotherapy assessment for nausea and/or vomiting, patient reported, performed at the time of chemotherapy administration; assessment Level 4: very much (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9025	Chemotherapy assessment for pain, patient reported, performed at the time of chemotherapy administration; assessment Level 1: not at all (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9026	Chemotherapy assessment for pain, patient reported, performed at the time of chemotherapy administration; assessment Level 2: a little (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9027	Chemotherapy assessment for pain, patient reported, performed at the time of chemotherapy administration; assessment Level 3: quite a bit (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9028	Chemotherapy assessment for pain, patient reported, performed at the time of chemotherapy administration; assessment Level 4: very much (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9029	Chemotherapy assessment for lack of energy (fatigue), patient reported, performed at the time of chemotherapy administration; assessment Level 1: not at all (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9030	Chemotherapy assessment for lack of energy (fatigue), patient reported, performed at the time of chemotherapy administration; assessment Level 2: a little (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9031	Chemotherapy assessment for lack of energy (fatigue), patient reported, performed at the time of chemotherapy administration, assessment Level 3: quite a bit (for use in a Medicare approved demonstration project)	Procedure	HCPCS
G9032	Chemotherapy assessment for lack of energy (fatigue), patient reported, performed at the time of chemotherapy administration, assessment Level 4: very much (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9050	Oncology; primary focus of visit; work-up, evaluation, or staging at the time of cancer diagnosis or recurrence (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9051	Oncology; primary focus of visit; treatment decision-making after disease is staged or restaged, discussion of treatment options, supervising/coordinating active cancer-directed therapy or managing consequences of cancer-directed therapy (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9052	Oncology; primary focus of visit; surveillance for disease recurrence for patient who has completed definitive cancer-directed therapy and currently lacks evidence of recurrent disease; cancer-directed therapy might be considered in the future (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9053	Oncology; primary focus of visit; expectant management of patient with evidence of cancer for whom no cancer-directed therapy is being administered or arranged at present; cancer-directed therapy might be considered in the future (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9054	Oncology; primary focus of visit; supervising, coordinating or managing care of patient with terminal cancer or for whom other medical illness prevents further cancer treatment; includes symptom management, end-of-life care planning, management of palliative therapies (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9055	Oncology; primary focus of visit; other, unspecified service not otherwise listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9056	Oncology; practice guidelines; management adheres to guidelines (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9057	Oncology; practice guidelines; management differs from guidelines as a result of patient enrollment in an institutional review board-approved clinical trial (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9058	Oncology; practice guidelines; management differs from guidelines because the treating physician disagrees with guideline recommendations (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9059	Oncology; practice guidelines; management differs from guidelines because the patient, after being offered treatment consistent with guidelines, has opted for alternative treatment or management, including no treatment (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9060	Oncology; practice guidelines; management differs from guidelines for reason(s) associated with patient comorbid illness or performance status not factored into guidelines (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9061	Oncology; practice guidelines; patient's condition not addressed by available guidelines (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9062	Oncology; practice guidelines; management differs from guidelines for other reason(s) not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9063	Oncology; disease status; limited to nonsmall cell lung cancer; extent of disease initially established as Stage I (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9064	Oncology; disease status; limited to nonsmall cell lung cancer; extent of disease initially established as Stage II (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9065	Oncology; disease status; limited to nonsmall cell lung cancer; extent of disease initially established as Stage III a (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9066	Oncology; disease status; limited to nonsmall cell lung cancer; Stage III B-IV at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9067	Oncology; disease status; limited to nonsmall cell lung cancer; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9069	Oncology; disease status; small cell lung cancer, limited to small cell and combined small cell/nonsmall cell; extensive Stage at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9070	Oncology; disease status; small cell lung cancer, limited to small cell and combined small cell/nonsmall; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9071	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; Stage I or Stage IIA-IIB; or T3, N1, M0; and ER and/or PR positive; with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9072	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; Stage I, or Stage IIA-IIB; or T3, N1, M0; and ER and PR negative; with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9073	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; Stage IIIA-IIIIB; and not T3, N1, M0; and ER and/or PR positive; with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9074	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; Stage IIIA-IIIIB; and not T3, N1, M0; and ER and PR negative; with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9075	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9076	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; extent of disease unknown, under evaluation, presurgical or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9077	Oncology; disease status; prostate cancer, limited to adenocarcinoma as predominant cell type; T1-T2c and Gleason 2-7 and PSA < or equal to 20 at diagnosis with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9078	Oncology; disease status; prostate cancer, limited to adenocarcinoma as predominant cell type; T2 or T3a Gleason 8-10 or PSA > 20 at diagnosis with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9079	Oncology; disease status; prostate cancer, limited to adenocarcinoma as predominant cell type; T3b-T4, any N; any T, N1 at diagnosis with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9080	Oncology; disease status; prostate cancer, limited to adenocarcinoma; after initial treatment with rising PSA or failure of PSA decline (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9081	Oncology; disease status; prostate cancer, limited to adenocarcinoma, non-castrate, incompletely castrate; clinical metastases or M1 at diagnosis (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9082	Oncology; disease status; prostate cancer, limited to adenocarcinoma; castrate; clinical metastases or M1 at diagnosis (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9083	Oncology; disease status; prostate cancer, limited to adenocarcinoma; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9084	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T1-3, N0, M0 with no evidence of disease progression, recurrence or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9085	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T4, N0, M0 with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9086	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T1-4, N1-2, M0 with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9087	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive with current clinical, radiologic, or biochemical evidence of disease (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9088	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive without current clinical, radiologic, or biochemical evidence of disease (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9089	Oncology; disease status; colon cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease unknown, staging in progress or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9090	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T1-2, N0, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9091	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T3, N0, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9092	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T1-3, N1-2, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9093	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease initially established as T4, any N, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9094	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9095	Oncology; disease status; rectal cancer, limited to invasive cancer, adenocarcinoma as predominant cell type; extent of disease unknown, staging in progress or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9096	Oncology; disease status; esophageal cancer, limited to adenocarcinoma or squamous cell carcinoma as predominant cell type; extent of disease initially established as T1-T3, N0-N1 or NX (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9097	Oncology; disease status; esophageal cancer, limited to adenocarcinoma or squamous cell carcinoma as predominant cell type; extent of disease initially established as T4, any N, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9098	Oncology; disease status; esophageal cancer, limited to adenocarcinoma or squamous cell carcinoma as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9099	Oncology; disease status; esophageal cancer, limited to adenocarcinoma or squamous cell carcinoma as predominant cell type; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9100	Oncology; disease status; gastric cancer, limited to adenocarcinoma as predominant cell type; post R0 resection (with or without neoadjuvant therapy) with no evidence of disease recurrence, progression, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9101	Oncology; disease status; gastric cancer, limited to adenocarcinoma as predominant cell type; post R1 or R2 resection (with or without neoadjuvant therapy) with no evidence of disease progression, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9102	Oncology; disease status; gastric cancer, limited to adenocarcinoma as predominant cell type; clinical or pathologic M0, unresectable with no evidence of disease progression, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9103	Oncology; disease status; gastric cancer, limited to adenocarcinoma as predominant cell type; clinical or pathologic M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9104	Oncology; disease status; gastric cancer, limited to adenocarcinoma as predominant cell type; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9105	Oncology; disease status; pancreatic cancer, limited to adenocarcinoma as predominant cell type; post R0 resection without evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9106	Oncology; disease status; pancreatic cancer, limited to adenocarcinoma; post R1 or R2 resection with no evidence of disease progression, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9107	Oncology; disease status; pancreatic cancer, limited to adenocarcinoma; unresectable at diagnosis, M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9108	Oncology; disease status; pancreatic cancer, limited to adenocarcinoma; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9109	Oncology; disease status; head and neck cancer, limited to cancers of oral cavity, pharynx and larynx with squamous cell as predominant cell type; extent of disease initially established as T1-T2 and N0, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9110	Oncology; disease status; head and neck cancer, limited to cancers of oral cavity, pharynx and larynx with squamous cell as predominant cell type; extent of disease initially established as T3-4 and/or N1-3, M0 (prior to neoadjuvant therapy, if any) with no evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9111	Oncology; disease status; head and neck cancer, limited to cancers of oral cavity, pharynx and larynx with squamous cell as predominant cell type; M1 at diagnosis, metastatic, locally recurrent, or progressive (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9112	Oncology; disease status; head and neck cancer, limited to cancers of oral cavity, pharynx and larynx with squamous cell as predominant cell type; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9113	Oncology; disease status; ovarian cancer, limited to epithelial cancer; pathologic Stage IA-B (Grade 1) without evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9114	Oncology; disease status; ovarian cancer, limited to epithelial cancer; pathologic Stage IA-B (Grade 2-3); or Stage IC (all grades); or Stage II; without evidence of disease progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9115	Oncology; disease status; ovarian cancer, limited to epithelial cancer; pathologic Stage III-IV; without evidence of progression, recurrence, or metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9116	Oncology; disease status; ovarian cancer, limited to epithelial cancer; evidence of disease progression, or recurrence, and/or platinum resistance (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9117	Oncology; disease status; ovarian cancer, limited to epithelial cancer; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9123	Oncology; disease status; chronic myelogenous leukemia, limited to Philadelphia chromosome positive and/or BCR-ABL positive; chronic phase not in hematologic, cytogenetic, or molecular remission (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9124	Oncology; disease status; chronic myelogenous leukemia, limited to Philadelphia chromosome positive and /or BCR-ABL positive; accelerated phase not in hematologic cytogenetic, or molecular remission (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9125	Oncology; disease status; chronic myelogenous leukemia, limited to Philadelphia chromosome positive and/or BCR-ABL positive; blast phase not in hematologic, cytogenetic, or molecular remission (for use in a Medicare-approved demonstration project)	Procedure	HCPCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
G9128	Oncology; disease status; limited to multiple myeloma, systemic disease; smoldering, Stage I (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9129	Oncology; disease status; limited to multiple myeloma, systemic disease; Stage II or higher (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9130	Oncology; disease status; limited to multiple myeloma, systemic disease; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9131	Oncology; disease status; invasive female breast cancer (does not include ductal carcinoma in situ); adenocarcinoma as predominant cell type; extent of disease unknown, staging in progress, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9132	Oncology; disease status; prostate cancer, limited to adenocarcinoma; hormone-refractory/androgen-independent (e.g., rising PSA on antiandrogen therapy or postorchiectomy); clinical metastases (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9133	Oncology; disease status; prostate cancer, limited to adenocarcinoma; hormone-responsive; clinical metastases or M1 at diagnosis (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9134	Oncology; disease status; non-Hodgkin's lymphoma, any cellular classification; Stage I, II at diagnosis, not relapsed, not refractory (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9135	Oncology; disease status; non-Hodgkin's lymphoma, any cellular classification; Stage III, IV, not relapsed, not refractory (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9136	Oncology; disease status; non-Hodgkin's lymphoma, transformed from original cellular diagnosis to a second cellular classification (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9137	Oncology; disease status; non-Hodgkin's lymphoma, any cellular classification; relapsed/refractory (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9138	Oncology; disease status; non-Hodgkin's lymphoma, any cellular classification; diagnostic evaluation, stage not determined, evaluation of possible relapse or nonresponse to therapy, or not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
G9139	Oncology; disease status; chronic myelogenous leukemia, limited to Philadelphia chromosome positive and/or BCR-ABL positive; extent of disease unknown, staging in progress, not listed (for use in a Medicare-approved demonstration project)	Procedure	HCPCS
J0207	Injection, amifostine, 500 mg	Procedure	HCPCS
J1260	Injection, dolasetron mesylate, 10 mg	Procedure	HCPCS
J8498	Antiemetic drug, rectal/suppository, not otherwise specified	Procedure	HCPCS
J8510	Busulfan; oral, 2 mg	Procedure	HCPCS
J8520	Capecitabine, oral, 150 mg	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J8521	Capecitabine, oral, 500 mg	Procedure	HCPCS
J8530	Cyclophosphamide, oral, 25 mg	Procedure	HCPCS
J8560	Etoposide, oral, 50 mg	Procedure	HCPCS
J8562	Fludarabine phosphate, oral, 10 mg	Procedure	HCPCS
J8597	Antiemetic drug, oral, not otherwise specified	Procedure	HCPCS
J8600	Melphalan, oral 2 mg	Procedure	HCPCS
J8610	Methotrexate, oral, 2.5 mg	Procedure	HCPCS
J8700	Temozolomide, oral, 5 mg	Procedure	HCPCS
J8705	Topotecan, oral, 0.25 mg	Procedure	HCPCS
J8999	Prescription drug, oral, chemotherapeutic, nos	Procedure	HCPCS
J9000	Injection, doxorubicin HCl, 10 mg	Procedure	HCPCS
J9002	Injection, doxorubicin hydrochloride, liposomal, Doxil, 10 mg	Procedure	HCPCS
J9015	Injection, aldesleukin, per single use vial	Procedure	HCPCS
J9017	Injection, arsenic trioxide, 1 mg	Procedure	HCPCS
J9019	Injection, asparaginase (Erwinaze), 1,000 IU	Procedure	HCPCS
J9020	Injection, asparaginase, not otherwise specified, 10,000 units	Procedure	HCPCS
J9025	Injection, azacitidine, 1 mg	Procedure	HCPCS
J9031	BCG (intravesical) per instillation	Procedure	HCPCS
J9033	Injection, bendamustine HCl (Treanda), 1 mg	Procedure	HCPCS
J9040	Injection, bleomycin sulfate, 15 units	Procedure	HCPCS
J9042	Injection, brentuximab vedotin, 1 mg	Procedure	HCPCS
J9043	Injection, cabazitaxel, 1 mg	Procedure	HCPCS
J9045	Injection, carboplatin, 50 mg	Procedure	HCPCS
J9047	Injection, carfilzomib, 1 mg	Procedure	HCPCS
J9050	Injection, carmustine, 100 mg	Procedure	HCPCS
J9060	Injection, cisplatin, powder or solution, 10 mg	Procedure	HCPCS
J9062	Cisplatin, 50 mg	Procedure	HCPCS
J9065	Injection, cladribine, per 1 mg	Procedure	HCPCS
J9070	Cyclophosphamide, 100 mg	Procedure	HCPCS
J9080	Cyclophosphamide, 200 mg	Procedure	HCPCS
J9090	Cyclophosphamide, 500 mg	Procedure	HCPCS
J9091	Cyclophosphamide, 1 g	Procedure	HCPCS
J9092	Cyclophosphamide, 2 g	Procedure	HCPCS
J9093	Cyclophosphamide, lyophilized, 100 mg	Procedure	HCPCS
J9094	Cyclophosphamide, lyophilized, 200 mg	Procedure	HCPCS
J9095	Cyclophosphamide, lyophilized, 500 mg	Procedure	HCPCS
J9096	Cyclophosphamide, lyophilized, 1 g	Procedure	HCPCS
J9097	Cyclophosphamide, lyophilized, 2 g	Procedure	HCPCS
J9100	Cytarabine, 100 mg	Procedure	HCPCS
J9110	Injection, cytarabine, 500 mg	Procedure	HCPCS
J9120	Injection, dactinomycin, 0.5 mg	Procedure	HCPCS
J9130	Dacarbazine, 100 mg	Procedure	HCPCS
J9140	Dacarbazine, 200 mg	Procedure	HCPCS
J9150	Injection, daunorubicin, 10 mg	Procedure	HCPCS

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J9151	Injection, daunorubicin citrate, liposomal formulation, 10 mg	Procedure	HCPCS
J9165	Injection, diethylstilbestrol diphosphate, 250 mg	Procedure	HCPCS
J9179	Injection, eribulin mesylate, 0.1 mg	Procedure	HCPCS
J9181	Injection, etoposide, 10 mg	Procedure	HCPCS
J9185	Injection, fludarabine phosphate, 50 mg	Procedure	HCPCS
J9190	Injection, fluorouracil, 500 mg	Procedure	HCPCS
J9200	Floxuridine, 500 mg	Procedure	HCPCS
J9201	Injection, gemcitabine HCl, not otherwise specified, 200 mg	Procedure	HCPCS
J9202	Goserelin acetate implant, per 3.6 mg	Procedure	HCPCS
J9206	Injection, irinotecan, 20 mg	Procedure	HCPCS
J9207	Injection, ixabepilone, 1 mg	Procedure	HCPCS
J9208	Injection, ifosfamide, 1 g	Procedure	HCPCS
J9209	Injection, mesna, 200 mg	Procedure	HCPCS
J9211	Idarubicin HCl, 5 mg	Procedure	HCPCS
J9213	Injection, interferon, alfa-2a, recombinant, 3 million units	Procedure	HCPCS
J9214	Injection, interferon, alfa-2b, recombinant, 1 million units	Procedure	HCPCS
J9215	Injection, interferon, alfa-N3, (human leukocyte derived), 250,000 IU	Procedure	HCPCS
J9216	Injection, interferon, gamma 1-b, 3 million units	Procedure	HCPCS
J9217	Leuprolide acetate (for depot suspension), 7.5 mg	Procedure	HCPCS
J9218	Leuprolide acetate, per 1 mg	Procedure	HCPCS
J9219	Leuprolide acetate implant, 65 mg	Procedure	HCPCS
J9225	Histrelin implant (Vantas), 50 mg	Procedure	HCPCS
J9226	Histrelin implant (Supprelin LA), 50 mg	Procedure	HCPCS
J9228	Injection, ipilimumab, 1 mg	Procedure	HCPCS
J9230	Injection, mechlorethamine HCl, (nitrogen mustard), 10 mg	Procedure	HCPCS
J9245	Injection, melphalan hydrochloride, not otherwise specified, 50 mg	Procedure	HCPCS
J9250	Methotrexate sodium, 5 mg	Procedure	HCPCS
J9260	Methotrexate sodium, 50 mg	Procedure	HCPCS
J9262	Injection, omacetaxine mepesuccinate, 0.01 mg	Procedure	HCPCS
J9263	Injection, oxaliplatin, 0.5 mg	Procedure	HCPCS
J9265	Injection, paclitaxel, 30 mg	Procedure	HCPCS
J9266	Injection, pegaspargase, per single dose vial	Procedure	HCPCS
J9267	Injection, paclitaxel, 1 mg	Procedure	HCPCS
J9268	Pentostatin, per 10 mg	Procedure	HCPCS
J9270	Plicamycin, 2.5 mg	Procedure	HCPCS
J9280	Mitomycin, 5 mg	Procedure	HCPCS
J9290	Mitomycin, 20 mg	Procedure	HCPCS
J9291	Mitomycin, 40 mg	Procedure	HCPCS
J9293	Injection, mitoxantrone HCl, per 5 mg	Procedure	HCPCS
J9300	Injection, gemtuzumab ozogamicin, 5 mg	Procedure	HCPCS
J9301	Injection, obinutuzumab, 10 mg	Procedure	HCPCS
J9302	Injection, ofatumumab, 10 mg	Procedure	HCPCS
J9303	Injection, panitumumab, 10 mg	Procedure	HCPCS
J9306	Injection, pertuzumab, 1 mg	Procedure	HCPCS



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J9310	Injection, rituximab, 100 mg	Procedure	HCPCS
J9315	Injection, romidepsin, 1 mg	Procedure	HCPCS
J9320	Streptozocin, 1 g	Procedure	HCPCS
J9328	Injection, temozolomide, 1 mg	Procedure	HCPCS
J9330	Injection, temsirolimus, 1 mg	Procedure	HCPCS
J9340	Thiotepa, 15 mg	Procedure	HCPCS
J9350	Injection, topotecan, 4 mg	Procedure	HCPCS
J9351	Injection, topotecan, 0.1 mg	Procedure	HCPCS
J9354	Injection, ado-trastuzumab emtansine, 1 mg	Procedure	HCPCS
J9360	Injection, vinblastine sulfate, 1 mg	Procedure	HCPCS
J9370	Vincristine sulfate, 1 mg	Procedure	HCPCS
J9371	Injection, vincristine sulfate liposome, 1 mg	Procedure	HCPCS
J9375	Vincristine sulfate, 2 mg	Procedure	HCPCS
J9380	Vincristine sulfate, 5 mg	Procedure	HCPCS
J9390	Vinorelbine tartrate, per 10 mg	Procedure	HCPCS
J9600	Porfimer sodium, 75 mg	Procedure	HCPCS
J9999	Not otherwise classified, antineoplastic drugs	Procedure	HCPCS
Q0083	Chemotherapy administration by other than infusion technique only (e.g., subcutaneous, intramuscular, push), per visit	Procedure	HCPCS
Q0084	Chemotherapy administration by infusion technique only, per visit	Procedure	HCPCS
Q0085	Chemotherapy administration by both infusion technique and other technique(s) (e.g. subcutaneous, intramuscular, push), per visit	Procedure	HCPCS
Q0161	Chlorpromazine HCl, 5 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage	Procedure	HCPCS
Q0162	Ondansetron 1 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0163	Diphenhydramine HCl, 50 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at time of chemotherapy treatment not to exceed a 48-hour	Procedure	HCPCS
Q0164	Prochlorperazine maleate, 5 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0165	Prochlorperazine maleate, 10 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0166	Granisetron HCl, 1 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 24-hour dosage regimen	Procedure	HCPCS

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Q0167	Dronabinol, 2.5 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0168	Dronabinol, 5 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0169	Promethazine HCl, 12.5 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage	Procedure	HCPCS
Q0170	Promethazine HCl, 25 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0171	Chlorpromazine HCl, 10 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage	Procedure	HCPCS
Q0172	Chlorpromazine HCl, 25 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage	Procedure	HCPCS
Q0173	Trimethobenzamide HCl, 250 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0174	Thiethylperazine maleate, 10 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0175	Perphenazine, 4 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0176	Perphenazine, 8 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48 hour dosage regimen	Procedure	HCPCS
Q0177	Hydroxyzine pamoate, 25 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-	Procedure	HCPCS
Q0178	Hydroxyzine pamoate, 50 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage	Procedure	HCPCS
Q0179	Ondansetron HCl 8 mg, oral, FDA approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0180	Dolasetron mesylate, 100 mg, oral, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 24-	Procedure	HCPCS



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
Q0181	Unspecified oral dosage form, FDA-approved prescription antiemetic, for use as a complete therapeutic substitute for an IV antiemetic at the time of chemotherapy treatment, not to exceed a 48-hour dosage regimen	Procedure	HCPCS
Q0511	Pharmacy supply fee for oral anticancer, oral antiemetic, or immunosuppressive drug(s); for the first prescription in a 30-day period	Procedure	HCPCS
Q0512	Pharmacy supply fee for oral anticancer, oral antiemetic, or immunosuppressive drug(s); for a subsequent prescription in a 30-day period	Procedure	HCPCS
Q2017	Injection, teniposide, 50 mg	Procedure	HCPCS
Q2025	Fludarabine phosphate, oral, 1 mg	Procedure	HCPCS
Q2048	Injection, doxorubicin hydrochloride, liposomal, DOXIL, 10 mg	Procedure	HCPCS
Q2049	Injection, doxorubicin HCl, liposomal, imported Lipodox, 10 mg	Procedure	HCPCS
Q2050	Injection, doxorubicin HCl, liposomal, not otherwise specified, 10 mg	Procedure	HCPCS
Q3001	Radioelements for brachytherapy, any type, each	Procedure	HCPCS
<b>Asthma</b>			
493.00	Extrinsic asthma, unspecified	Diagnosis	ICD-9-CM
493.01	Extrinsic asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.02	Extrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.10	Intrinsic asthma, unspecified	Diagnosis	ICD-9-CM
493.11	Intrinsic asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.12	Intrinsic asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.20	Chronic obstructive asthma, unspecified	Diagnosis	ICD-9-CM
493.21	Chronic obstructive asthma with status asthmaticus	Diagnosis	ICD-9-CM
493.22	Chronic obstructive asthma, with (acute) exacerbation	Diagnosis	ICD-9-CM
493.81	Exercise induced bronchospasm	Diagnosis	ICD-9-CM
493.82	Cough variant asthma	Diagnosis	ICD-9-CM
493.90	Asthma, unspecified, unspecified status	Diagnosis	ICD-9-CM
493.91	Asthma, unspecified with status asthmaticus	Diagnosis	ICD-9-CM
493.92	Asthma, unspecified, with (acute) exacerbation	Diagnosis	ICD-9-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
J82.83	Eosinophilic asthma	Diagnosis	ICD-10-CM
<b>Hyperlipidemia</b>			
272.0	Pure hypercholesterolemia	Diagnosis	ICD-9-CM
272.1	Pure hyperglyceridemia	Diagnosis	ICD-9-CM
272.2	Mixed hyperlipidemia	Diagnosis	ICD-9-CM
272.3	Hyperchylomicronemia	Diagnosis	ICD-9-CM
272.4	Other and unspecified hyperlipidemia	Diagnosis	ICD-9-CM
E78.0	Pure hypercholesterolemia	Diagnosis	ICD-10-CM
E78.00	Pure hypercholesterolemia, unspecified	Diagnosis	ICD-10-CM
E78.01	Familial hypercholesterolemia	Diagnosis	ICD-10-CM
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.41	Elevated Lipoprotein(a)	Diagnosis	ICD-10-CM
E78.49	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	Diagnosis	ICD-10-CM
<b>Depression</b>			
296.20	Major depressive disorder, single episode, unspecified	Diagnosis	ICD-9-CM
296.21	Major depressive disorder, single episode, mild	Diagnosis	ICD-9-CM
296.22	Major depressive disorder, single episode, moderate	Diagnosis	ICD-9-CM
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.25	Major depressive disorder, single episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.26	Major depressive disorder, single episode in full remission	Diagnosis	ICD-9-CM
296.30	Major depressive disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.31	Major depressive disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.32	Major depressive disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.36	Major depressive disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM
296.60	Bipolar I disorder, most recent episode (or current) mixed, unspecified	Diagnosis	ICD-9-CM
296.61	Bipolar I disorder, most recent episode (or current) mixed, mild	Diagnosis	ICD-9-CM
296.62	Bipolar I disorder, most recent episode (or current) mixed, moderate	Diagnosis	ICD-9-CM
296.63	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.64	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.65	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.66	Bipolar I disorder, most recent episode (or current) mixed, in full	Diagnosis	ICD-9-CM
296.89	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
298.0	Depressive type psychosis	Diagnosis	ICD-9-CM
300.4	Dysthymic disorder	Diagnosis	ICD-9-CM
309.1	Prolonged depressive reaction as adjustment reaction	Diagnosis	ICD-9-CM
311	Depressive disorder, not elsewhere classified	Diagnosis	ICD-9-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
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
F31.60	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
F31.75	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
F31.81	Bipolar II disorder	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F32.9	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
F43.21	Adjustment disorder with depressed mood	Diagnosis	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	Diagnosis	ICD-10-CM
<b>Schizophrenia</b>			
295.00	Simple schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.01	Simple schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.02	Simple schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.03	Simple schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.04	Simple schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.05	Simple schizophrenia, in remission	Diagnosis	ICD-9-CM
295.10	Disorganized schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.11	Disorganized schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.12	Disorganized schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.13	Disorganized schizophrenia, subchronic condition with acute	Diagnosis	ICD-9-CM
295.14	Disorganized schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.15	Disorganized schizophrenia, in remission	Diagnosis	ICD-9-CM
295.20	Catatonic schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.21	Catatonic schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.22	Catatonic schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.23	Catatonic schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.24	Catatonic schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.25	Catatonic schizophrenia, in remission	Diagnosis	ICD-9-CM
295.30	Paranoid schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.31	Paranoid schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.32	Paranoid schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.33	Paranoid schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.34	Paranoid schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.35	Paranoid schizophrenia, in remission	Diagnosis	ICD-9-CM
295.40	Schizophreniform disorder, unspecified	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
295.41	Schizophreniform disorder, subchronic	Diagnosis	ICD-9-CM
295.42	Schizophreniform disorder, chronic	Diagnosis	ICD-9-CM
295.43	Schizophreniform disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.44	Schizophreniform disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.45	Schizophreniform disorder, in remission	Diagnosis	ICD-9-CM
295.50	Latent schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.51	Latent schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.52	Latent schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.53	Latent schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.54	Latent schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.55	Latent schizophrenia, in remission	Diagnosis	ICD-9-CM
295.60	Schizophrenic disorders, residual type, unspecified	Diagnosis	ICD-9-CM
295.61	Schizophrenic disorders, residual type, subchronic	Diagnosis	ICD-9-CM
295.62	Schizophrenic disorders, residual type, chronic	Diagnosis	ICD-9-CM
295.63	Schizophrenic disorders, residual type, subchronic with acute	Diagnosis	ICD-9-CM
295.64	Schizophrenic disorders, residual type, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.65	Schizophrenic disorders, residual type, in remission	Diagnosis	ICD-9-CM
295.70	Schizoaffective disorder, unspecified	Diagnosis	ICD-9-CM
295.71	Schizoaffective disorder, subchronic	Diagnosis	ICD-9-CM
295.72	Schizoaffective disorder, chronic	Diagnosis	ICD-9-CM
295.73	Schizoaffective disorder, subchronic with acute exacerbation	Diagnosis	ICD-9-CM
295.74	Schizoaffective disorder, chronic with acute exacerbation	Diagnosis	ICD-9-CM
295.75	Schizoaffective disorder, in remission	Diagnosis	ICD-9-CM
295.80	Other specified types of schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.81	Other specified types of schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.82	Other specified types of schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.83	Other specified types of schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.84	Other specified types of schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.85	Other specified types of schizophrenia, in remission	Diagnosis	ICD-9-CM
295.90	Unspecified schizophrenia, unspecified condition	Diagnosis	ICD-9-CM
295.91	Unspecified schizophrenia, subchronic condition	Diagnosis	ICD-9-CM
295.92	Unspecified schizophrenia, chronic condition	Diagnosis	ICD-9-CM
295.93	Unspecified schizophrenia, subchronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.94	Unspecified schizophrenia, chronic condition with acute exacerbation	Diagnosis	ICD-9-CM
295.95	Unspecified schizophrenia, in remission	Diagnosis	ICD-9-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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F20.9	Schizophrenia, unspecified	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
<b>Bipolar Disorder</b>			
296.00	Bipolar I disorder, single manic episode, unspecified	Diagnosis	ICD-9-CM
296.01	Bipolar I disorder, single manic episode, mild	Diagnosis	ICD-9-CM
296.02	Bipolar I disorder, single manic episode, moderate	Diagnosis	ICD-9-CM
296.03	Bipolar I disorder, single manic episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.04	Bipolar I disorder, single manic episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.05	Bipolar I disorder, single manic episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.06	Bipolar I disorder, single manic episode, in full remission	Diagnosis	ICD-9-CM
296.10	Manic disorder, recurrent episode, unspecified	Diagnosis	ICD-9-CM
296.11	Manic disorder, recurrent episode, mild	Diagnosis	ICD-9-CM
296.12	Manic disorder, recurrent episode, moderate	Diagnosis	ICD-9-CM
296.13	Manic disorder, recurrent episode, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.14	Manic disorder, recurrent episode, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.15	Manic disorder, recurrent episode, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.16	Manic disorder, recurrent episode, in full remission	Diagnosis	ICD-9-CM
296.40	Bipolar I disorder, most recent episode (or current) manic, unspecified	Diagnosis	ICD-9-CM
296.41	Bipolar I disorder, most recent episode (or current) manic, mild	Diagnosis	ICD-9-CM
296.42	Bipolar I disorder, most recent episode (or current) manic, moderate	Diagnosis	ICD-9-CM
296.43	Bipolar I disorder, most recent episode (or current) manic, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.44	Bipolar I disorder, most recent episode (or current) manic, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.45	Bipolar I disorder, most recent episode (or current) manic, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.46	Bipolar I disorder, most recent episode (or current) manic, in full	Diagnosis	ICD-9-CM
296.50	Bipolar I disorder, most recent episode (or current) depressed,	Diagnosis	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	Diagnosis	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	Diagnosis	ICD-9-CM
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	Diagnosis	ICD-9-CM
296.60	Bipolar I disorder, most recent episode (or current) mixed, unspecified	Diagnosis	ICD-9-CM
296.61	Bipolar I disorder, most recent episode (or current) mixed, mild	Diagnosis	ICD-9-CM
296.62	Bipolar I disorder, most recent episode (or current) mixed, moderate	Diagnosis	ICD-9-CM
296.63	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	Diagnosis	ICD-9-CM
296.64	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	Diagnosis	ICD-9-CM
296.65	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	Diagnosis	ICD-9-CM
296.66	Bipolar I disorder, most recent episode (or current) mixed, in full	Diagnosis	ICD-9-CM
296.7	Bipolar I disorder, most recent episode (or current) unspecified	Diagnosis	ICD-9-CM
296.80	Bipolar disorder, unspecified	Diagnosis	ICD-9-CM
296.81	Atypical manic disorder	Diagnosis	ICD-9-CM
296.82	Atypical depressive disorder	Diagnosis	ICD-9-CM
296.89	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM
296.90	Unspecified episodic mood disorder	Diagnosis	ICD-9-CM
296.99	Other specified episodic mood disorder	Diagnosis	ICD-9-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
F30.8	Other manic episodes	Diagnosis	ICD-10-CM
F30.9	Manic episode, unspecified	Diagnosis	ICD-10-CM
F31.0	Bipolar disorder, current episode hypomanic	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,	Diagnosis	ICD-10-CM
F31.2	Bipolar disorder, current episode manic severe with psychotic features	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
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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F31.70	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
F31.81	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
F33.8	Other recurrent depressive disorders	Diagnosis	ICD-10-CM
F34.81	Disruptive mood dysregulation disorder	Diagnosis	ICD-10-CM
F34.89	Other specified persistent mood disorders	Diagnosis	ICD-10-CM
F34.9	Persistent mood [affective] disorder, unspecified	Diagnosis	ICD-10-CM
F39	Unspecified mood [affective] disorder	Diagnosis	ICD-10-CM
<b>Chronic Liver Disease</b>			
070.22	Viral hepatitis B with hepatic coma, chronic, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.23	Viral hepatitis B with hepatic coma, chronic, with hepatitis delta	Diagnosis	ICD-9-CM
070.32	Viral hepatitis B without mention of hepatic coma, chronic, without mention of hepatitis delta	Diagnosis	ICD-9-CM
070.33	Viral hepatitis B without mention of hepatic coma, chronic, with hepatitis delta	Diagnosis	ICD-9-CM
070.44	Chronic hepatitis C with hepatic coma	Diagnosis	ICD-9-CM
070.54	Chronic hepatitis C without mention of hepatic coma	Diagnosis	ICD-9-CM
070.59	Other specified viral hepatitis without mention of hepatic coma	Diagnosis	ICD-9-CM
273.4	Alpha-1-antitrypsin deficiency	Diagnosis	ICD-9-CM
275.01	Hereditary hemochromatosis	Diagnosis	ICD-9-CM
275.1	Disorders of copper metabolism	Diagnosis	ICD-9-CM
456.0	Esophageal varices with bleeding	Diagnosis	ICD-9-CM
456.1	Esophageal varices without mention of bleeding	Diagnosis	ICD-9-CM
456.20	Esophageal varices with bleeding in diseases classified elsewhere	Diagnosis	ICD-9-CM
456.21	Esophageal varices without mention of bleeding in diseases classified elsewhere	Diagnosis	ICD-9-CM
456.8	Varices of other sites	Diagnosis	ICD-9-CM
567.23	Spontaneous bacterial peritonitis	Diagnosis	ICD-9-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
568.82	Peritoneal effusion (chronic)	Diagnosis	ICD-9-CM
570	Acute and subacute necrosis of liver	Diagnosis	ICD-9-CM
571.0	Alcoholic fatty liver	Diagnosis	ICD-9-CM
571.1	Acute alcoholic hepatitis	Diagnosis	ICD-9-CM
571.2	Alcoholic cirrhosis of liver	Diagnosis	ICD-9-CM
571.3	Unspecified alcoholic liver damage	Diagnosis	ICD-9-CM
571.40	Unspecified chronic hepatitis	Diagnosis	ICD-9-CM
571.41	Chronic persistent hepatitis	Diagnosis	ICD-9-CM
571.42	Autoimmune hepatitis	Diagnosis	ICD-9-CM
571.49	Other chronic hepatitis	Diagnosis	ICD-9-CM
571.5	Cirrhosis of liver without mention of alcohol	Diagnosis	ICD-9-CM
571.6	Biliary cirrhosis	Diagnosis	ICD-9-CM
571.8	Other chronic nonalcoholic liver disease	Diagnosis	ICD-9-CM
571.9	Unspecified chronic liver disease without mention of alcohol	Diagnosis	ICD-9-CM
572.0	Abscess of liver	Diagnosis	ICD-9-CM
572.1	Portal pyemia	Diagnosis	ICD-9-CM
572.2	Hepatic encephalopathy	Diagnosis	ICD-9-CM
572.3	Portal hypertension	Diagnosis	ICD-9-CM
572.4	Hepatorenal syndrome	Diagnosis	ICD-9-CM
572.8	Other sequelae of chronic liver disease	Diagnosis	ICD-9-CM
573.0	Chronic passive congestion of liver	Diagnosis	ICD-9-CM
573.3	Unspecified hepatitis	Diagnosis	ICD-9-CM
573.4	Hepatic infarction	Diagnosis	ICD-9-CM
573.5	Hepatopulmonary syndrome	Diagnosis	ICD-9-CM
573.8	Other specified disorders of liver	Diagnosis	ICD-9-CM
573.9	Unspecified disorder of liver	Diagnosis	ICD-9-CM
789.59	Other ascites	Diagnosis	ICD-9-CM
997.49	Other digestive system complications	Diagnosis	ICD-9-CM
B18	Chronic viral hepatitis	Diagnosis	ICD-10-CM
B18.0	Chronic viral hepatitis B with delta-agent	Diagnosis	ICD-10-CM
B18.1	Chronic viral hepatitis B without delta-agent	Diagnosis	ICD-10-CM
B18.2	Chronic viral hepatitis C	Diagnosis	ICD-10-CM
B18.8	Other chronic viral hepatitis	Diagnosis	ICD-10-CM
B18.9	Chronic viral hepatitis, unspecified	Diagnosis	ICD-10-CM
E83.01	Wilson's disease	Diagnosis	ICD-10-CM
E83.110	Hereditary hemochromatosis	Diagnosis	ICD-10-CM
E88.01	Alpha-1-antitrypsin deficiency	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

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I86.4	Gastric varices	Diagnosis	ICD-10-CM
K65.2	Spontaneous bacterial peritonitis	Diagnosis	ICD-10-CM
K70.0	Alcoholic fatty liver	Diagnosis	ICD-10-CM
K70.1	Alcoholic hepatitis	Diagnosis	ICD-10-CM
K70.10	Alcoholic hepatitis without ascites	Diagnosis	ICD-10-CM
K70.11	Alcoholic hepatitis with ascites	Diagnosis	ICD-10-CM
K70.2	Alcoholic fibrosis and sclerosis of liver	Diagnosis	ICD-10-CM
K70.3	Alcoholic cirrhosis of liver	Diagnosis	ICD-10-CM
K70.30	Alcoholic cirrhosis of liver without ascites	Diagnosis	ICD-10-CM
K70.31	Alcoholic cirrhosis of liver with ascites	Diagnosis	ICD-10-CM
K70.4	Alcoholic hepatic failure	Diagnosis	ICD-10-CM
K70.40	Alcoholic hepatic failure without coma	Diagnosis	ICD-10-CM
K70.41	Alcoholic hepatic failure with coma	Diagnosis	ICD-10-CM
K70.9	Alcoholic liver disease, unspecified	Diagnosis	ICD-10-CM
K71.0	Toxic liver disease with cholestasis	Diagnosis	ICD-10-CM
K71.1	Toxic liver disease with hepatic necrosis	Diagnosis	ICD-10-CM
K71.10	Toxic liver disease with hepatic necrosis, without coma	Diagnosis	ICD-10-CM
K71.11	Toxic liver disease with hepatic necrosis, with coma	Diagnosis	ICD-10-CM
K71.2	Toxic liver disease with acute hepatitis	Diagnosis	ICD-10-CM
K71.3	Toxic liver disease with chronic persistent hepatitis	Diagnosis	ICD-10-CM
K71.4	Toxic liver disease with chronic lobular hepatitis	Diagnosis	ICD-10-CM
K71.5	Toxic liver disease with chronic active hepatitis	Diagnosis	ICD-10-CM
K71.50	Toxic liver disease with chronic active hepatitis without ascites	Diagnosis	ICD-10-CM
K71.51	Toxic liver disease with chronic active hepatitis with ascites	Diagnosis	ICD-10-CM
K71.6	Toxic liver disease with hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K71.7	Toxic liver disease with fibrosis and cirrhosis of liver	Diagnosis	ICD-10-CM
K71.8	Toxic liver disease with other disorders of liver	Diagnosis	ICD-10-CM
K71.9	Toxic liver disease, unspecified	Diagnosis	ICD-10-CM
K72.01	Acute and subacute hepatic failure with coma	Diagnosis	ICD-10-CM
K72.1	Chronic hepatic failure	Diagnosis	ICD-10-CM
K72.10	Chronic hepatic failure without coma	Diagnosis	ICD-10-CM
K72.11	Chronic hepatic failure with coma	Diagnosis	ICD-10-CM
K72.9	Hepatic failure, unspecified	Diagnosis	ICD-10-CM
K72.90	Hepatic failure, unspecified without coma	Diagnosis	ICD-10-CM
K72.91	Hepatic failure, unspecified with coma	Diagnosis	ICD-10-CM
K73	Chronic hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.0	Chronic persistent hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.1	Chronic lobular hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.2	Chronic active hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.8	Other chronic hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K73.9	Chronic hepatitis, unspecified	Diagnosis	ICD-10-CM
K74	Fibrosis and cirrhosis of liver	Diagnosis	ICD-10-CM
K74.0	Hepatic fibrosis	Diagnosis	ICD-10-CM
K74.1	Hepatic sclerosis	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K74.2	Hepatic fibrosis with hepatic sclerosis	Diagnosis	ICD-10-CM
K74.3	Primary biliary cirrhosis	Diagnosis	ICD-10-CM
K74.4	Secondary biliary cirrhosis	Diagnosis	ICD-10-CM
K74.5	Biliary cirrhosis, unspecified	Diagnosis	ICD-10-CM
K74.6	Other and unspecified cirrhosis of liver	Diagnosis	ICD-10-CM
K74.60	Unspecified cirrhosis of liver	Diagnosis	ICD-10-CM
K74.69	Other cirrhosis of liver	Diagnosis	ICD-10-CM
K75.0	Abscess of liver	Diagnosis	ICD-10-CM
K75.1	Phlebitis of portal vein	Diagnosis	ICD-10-CM
K75.2	Nonspecific reactive hepatitis	Diagnosis	ICD-10-CM
K75.3	Granulomatous hepatitis, not elsewhere classified	Diagnosis	ICD-10-CM
K75.4	Autoimmune hepatitis	Diagnosis	ICD-10-CM
K75.8	Other specified inflammatory liver diseases	Diagnosis	ICD-10-CM
K75.81	Nonalcoholic steatohepatitis (NASH)	Diagnosis	ICD-10-CM
K75.89	Other specified inflammatory liver diseases	Diagnosis	ICD-10-CM
K75.9	Inflammatory liver disease, unspecified	Diagnosis	ICD-10-CM
K76.0	Fatty (change of) liver, not elsewhere classified	Diagnosis	ICD-10-CM
K76.1	Chronic passive congestion of liver	Diagnosis	ICD-10-CM
K76.2	Central hemorrhagic necrosis of liver	Diagnosis	ICD-10-CM
K76.3	Infarction of liver	Diagnosis	ICD-10-CM
K76.4	Peliosis hepatis	Diagnosis	ICD-10-CM
K76.5	Hepatic veno-occlusive disease	Diagnosis	ICD-10-CM
K76.6	Portal hypertension	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
K76.8	Other specified diseases of liver	Diagnosis	ICD-10-CM
K76.81	Hepatopulmonary syndrome	Diagnosis	ICD-10-CM
K76.89	Other specified diseases of liver	Diagnosis	ICD-10-CM
K76.9	Liver disease, unspecified	Diagnosis	ICD-10-CM
K83.01	Primary sclerosing cholangitis	Diagnosis	ICD-10-CM
K91.83	Postprocedural hepatorenal syndrome	Diagnosis	ICD-10-CM
R18	Ascites	Diagnosis	ICD-10-CM
R18.8	Other ascites	Diagnosis	ICD-10-CM
V42.7	Liver replaced by transplant	Diagnosis	ICD-9-CM
Z94.4	Liver transplant status	Diagnosis	ICD-10-CM
<b>Pneumonia</b>			
480	Viral pneumonia	Diagnosis	ICD-9-CM
480.0	Pneumonia due to adenovirus	Diagnosis	ICD-9-CM
480.1	Pneumonia due to respiratory syncytial virus	Diagnosis	ICD-9-CM
480.2	Pneumonia due to parainfluenza virus	Diagnosis	ICD-9-CM
480.3	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-9-CM
480.8	Pneumonia due to other virus not elsewhere classified	Diagnosis	ICD-9-CM
480.9	Unspecified viral pneumonia	Diagnosis	ICD-9-CM
481	Pneumococcal pneumonia (streptococcus pneumoniae pneumonia)	Diagnosis	ICD-9-CM
482	Other bacterial pneumonia	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
482.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-9-CM
482.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-9-CM
482.2	Pneumonia due to Hemophilus influenzae (H. influenzae)	Diagnosis	ICD-9-CM
482.3	Pneumonia due to Streptococcus	Diagnosis	ICD-9-CM
482.30	Pneumonia due to unspecified Streptococcus	Diagnosis	ICD-9-CM
482.31	Pneumonia due to Streptococcus, group A	Diagnosis	ICD-9-CM
482.32	Pneumonia due to Streptococcus, group B	Diagnosis	ICD-9-CM
482.39	Pneumonia due to other Streptococcus	Diagnosis	ICD-9-CM
482.4	Pneumonia due to Staphylococcus	Diagnosis	ICD-9-CM
482.40	Pneumonia due to Staphylococcus, unspecified	Diagnosis	ICD-9-CM
482.41	Methicillin susceptible pneumonia due to Staphylococcus aureus	Diagnosis	ICD-9-CM
482.42	Methicillin resistant pneumonia due to Staphylococcus aureus	Diagnosis	ICD-9-CM
482.49	Other Staphylococcus pneumonia	Diagnosis	ICD-9-CM
482.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-9-CM
482.81	Pneumonia due to anaerobes	Diagnosis	ICD-9-CM
482.82	Pneumonia due to Escherichia coli (E. coli)	Diagnosis	ICD-9-CM
482.83	Pneumonia due to other gram-negative bacteria	Diagnosis	ICD-9-CM
482.84	Legionnaires' disease	Diagnosis	ICD-9-CM
482.89	Pneumonia due to other specified bacteria	Diagnosis	ICD-9-CM
482.9	Unspecified bacterial pneumonia	Diagnosis	ICD-9-CM
483	Pneumonia due to other specified organism	Diagnosis	ICD-9-CM
483.0	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-9-CM
483.1	Pneumonia due to Chlamydia	Diagnosis	ICD-9-CM
483.8	Pneumonia due to other specified organism	Diagnosis	ICD-9-CM
484	Pneumonia in infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
484.1	Pneumonia in cytomegalic inclusion disease	Diagnosis	ICD-9-CM
484.3	Pneumonia in whooping cough	Diagnosis	ICD-9-CM
484.5	Pneumonia in anthrax	Diagnosis	ICD-9-CM
484.6	Pneumonia in aspergillosis	Diagnosis	ICD-9-CM
484.7	Pneumonia in other systemic mycoses	Diagnosis	ICD-9-CM
484.8	Pneumonia in other infectious diseases classified elsewhere	Diagnosis	ICD-9-CM
485	Bronchopneumonia, organism unspecified	Diagnosis	ICD-9-CM
486	Pneumonia, organism unspecified	Diagnosis	ICD-9-CM
487.0	Influenza with pneumonia	Diagnosis	ICD-9-CM
488.01	Influenza due to identified avian influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.11	Influenza due to identified 2009 H1N1 influenza virus with pneumonia	Diagnosis	ICD-9-CM
488.81	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-9-CM
507	Pneumonitis due to solids and liquids	Diagnosis	ICD-9-CM
507.0	Pneumonitis due to inhalation of food or vomitus	Diagnosis	ICD-9-CM
507.1	Pneumonitis due to inhalation of oils and essences	Diagnosis	ICD-9-CM
507.8	Pneumonitis due to other solids and liquids	Diagnosis	ICD-9-CM
997.3	Respiratory complications	Diagnosis	ICD-9-CM
997.31	Ventilator associated pneumonia	Diagnosis	ICD-9-CM
997.32	Postprocedural aspiration pneumonia	Diagnosis	ICD-9-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
997.39	Other respiratory complications	Diagnosis	ICD-9-CM
A22.1	Pulmonary anthrax	Diagnosis	ICD-10-CM
A37.01	Whooping cough due to Bordetella pertussis with pneumonia	Diagnosis	ICD-10-CM
A37.11	Whooping cough due to Bordetella parapertussis with pneumonia	Diagnosis	ICD-10-CM
A37.81	Whooping cough due to other Bordetella species with pneumonia	Diagnosis	ICD-10-CM
A37.91	Whooping cough, unspecified species with pneumonia	Diagnosis	ICD-10-CM
A48.1	Legionnaires' disease	Diagnosis	ICD-10-CM
B25.0	Cytomegaloviral pneumonitis	Diagnosis	ICD-10-CM
B44.0	Invasive pulmonary aspergillosis	Diagnosis	ICD-10-CM
B77.81	Ascariasis pneumonia	Diagnosis	ICD-10-CM
J09.X1	Influenza due to identified novel influenza A virus with pneumonia	Diagnosis	ICD-10-CM
J10.00	Influenza due to other identified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J10.01	Influenza due to other identified influenza virus with the same other identified influenza virus pneumonia	Diagnosis	ICD-10-CM
J10.08	Influenza due to other identified influenza virus with other specified pneumonia	Diagnosis	ICD-10-CM
J11.00	Influenza due to unidentified influenza virus with unspecified type of pneumonia	Diagnosis	ICD-10-CM
J11.08	Influenza due to unidentified influenza virus with specified pneumonia	Diagnosis	ICD-10-CM
J12.0	Adenoviral pneumonia	Diagnosis	ICD-10-CM
J12.1	Respiratory syncytial virus pneumonia	Diagnosis	ICD-10-CM
J12.2	Parainfluenza virus pneumonia	Diagnosis	ICD-10-CM
J12.3	Human metapneumovirus pneumonia	Diagnosis	ICD-10-CM
J12.81	Pneumonia due to SARS-associated coronavirus	Diagnosis	ICD-10-CM
J12.82	Pneumonia due to coronavirus disease 2019	Diagnosis	ICD-10-CM
J12.89	Other viral pneumonia	Diagnosis	ICD-10-CM
J12.9	Viral pneumonia, unspecified	Diagnosis	ICD-10-CM
J13	Pneumonia due to Streptococcus pneumoniae	Diagnosis	ICD-10-CM
J14	Pneumonia due to Hemophilus influenzae	Diagnosis	ICD-10-CM
J15.0	Pneumonia due to Klebsiella pneumoniae	Diagnosis	ICD-10-CM
J15.1	Pneumonia due to Pseudomonas	Diagnosis	ICD-10-CM
J15.20	Pneumonia due to staphylococcus, unspecified	Diagnosis	ICD-10-CM
J15.211	Pneumonia due to Methicillin susceptible Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.212	Pneumonia due to Methicillin resistant Staphylococcus aureus	Diagnosis	ICD-10-CM
J15.29	Pneumonia due to other staphylococcus	Diagnosis	ICD-10-CM
J15.3	Pneumonia due to streptococcus, group B	Diagnosis	ICD-10-CM
J15.4	Pneumonia due to other streptococci	Diagnosis	ICD-10-CM
J15.5	Pneumonia due to Escherichia coli	Diagnosis	ICD-10-CM
J15.6	Pneumonia due to other Gram-negative bacteria	Diagnosis	ICD-10-CM
J15.7	Pneumonia due to Mycoplasma pneumoniae	Diagnosis	ICD-10-CM
J15.8	Pneumonia due to other specified bacteria	Diagnosis	ICD-10-CM
J15.9	Unspecified bacterial pneumonia	Diagnosis	ICD-10-CM
J16.0	Chlamydial pneumonia	Diagnosis	ICD-10-CM

**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J16.8	Pneumonia due to other specified infectious organisms	Diagnosis	ICD-10-CM
J17	Pneumonia in diseases classified elsewhere	Diagnosis	ICD-10-CM
J18.0	Bronchopneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.1	Lobar pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.8	Other pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J18.9	Pneumonia, unspecified organism	Diagnosis	ICD-10-CM
J69.0	Pneumonitis due to inhalation of food and vomit	Diagnosis	ICD-10-CM
J69.1	Pneumonitis due to inhalation of oils and essences	Diagnosis	ICD-10-CM
J69.8	Pneumonitis due to inhalation of other solids and liquids	Diagnosis	ICD-10-CM
J95.4	Chemical pneumonitis due to anesthesia	Diagnosis	ICD-10-CM
J95.5	Postprocedural subglottic stenosis	Diagnosis	ICD-10-CM
J95.851	Ventilator associated pneumonia	Diagnosis	ICD-10-CM
J95.859	Other complication of respirator [ventilator]	Diagnosis	ICD-10-CM
J95.88	Other intraoperative complications of respiratory system, not elsewhere classified	Diagnosis	ICD-10-CM
J95.89	Other postprocedural complications and disorders of respiratory system, not elsewhere classified	Diagnosis	ICD-10-CM
<b>Cardiac Arrhythmia</b>			
426.0	Atrioventricular block, complete	Diagnosis	ICD-9-CM
426.1	Atrioventricular block, other and unspecified	Diagnosis	ICD-9-CM
426.10	Unspecified atrioventricular block	Diagnosis	ICD-9-CM
426.11	First degree atrioventricular block	Diagnosis	ICD-9-CM
426.12	Mobitz (type) II atrioventricular block	Diagnosis	ICD-9-CM
426.13	Other second degree atrioventricular block	Diagnosis	ICD-9-CM
426.6	Other heart block	Diagnosis	ICD-9-CM
426.7	Anomalous atrioventricular excitation	Diagnosis	ICD-9-CM
426.81	Lown-Ganong-Levine syndrome	Diagnosis	ICD-9-CM
426.82	Long QT syndrome	Diagnosis	ICD-9-CM
427	Cardiac dysrhythmias	Diagnosis	ICD-9-CM
427.0	Paroxysmal supraventricular tachycardia	Diagnosis	ICD-9-CM
427.1	Paroxysmal ventricular tachycardia	Diagnosis	ICD-9-CM
427.2	Unspecified paroxysmal tachycardia	Diagnosis	ICD-9-CM
427.3	Atrial fibrillation and flutter	Diagnosis	ICD-9-CM
427.32	Atrial flutter	Diagnosis	ICD-9-CM
427.4	Ventricular fibrillation and flutter	Diagnosis	ICD-9-CM
427.41	Ventricular fibrillation	Diagnosis	ICD-9-CM
427.42	Ventricular flutter	Diagnosis	ICD-9-CM
427.5	Cardiac arrest	Diagnosis	ICD-9-CM
427.81	Sinoatrial node dysfunction	Diagnosis	ICD-9-CM
785.0	Unspecified tachycardia	Diagnosis	ICD-9-CM
I44.0	Atrioventricular block, first degree	Diagnosis	ICD-10-CM
I44.1	Atrioventricular block, second degree	Diagnosis	ICD-10-CM
I44.2	Atrioventricular block, complete	Diagnosis	ICD-10-CM
I44.3	Other and unspecified atrioventricular block	Diagnosis	ICD-10-CM



**Appendix F. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Third Edition (CPT-3), Healthcare Common Procedure Coding System, Level II (HCPCS), International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), and International Classification of Diseases, Tenth Revision, Procedural Coding System (ICD-10-PCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
I44.30	Unspecified atrioventricular block	Diagnosis	ICD-10-CM
I45.5	Other specified heart block	Diagnosis	ICD-10-CM
I45.6	Pre-excitation syndrome	Diagnosis	ICD-10-CM
I45.81	Long QT syndrome	Diagnosis	ICD-10-CM
I46.9	Cardiac arrest, cause unspecified	Diagnosis	ICD-10-CM
I47.0	Re-entry ventricular arrhythmia	Diagnosis	ICD-10-CM
I47.1	Supraventricular tachycardia	Diagnosis	ICD-10-CM
I47.2	Ventricular tachycardia	Diagnosis	ICD-10-CM
I47.9	Paroxysmal tachycardia, unspecified	Diagnosis	ICD-10-CM
I48	Atrial fibrillation and flutter	Diagnosis	ICD-10-CM
I48.3	Typical atrial flutter	Diagnosis	ICD-10-CM
I48.4	Atypical atrial flutter	Diagnosis	ICD-10-CM
I48.92	Unspecified atrial flutter	Diagnosis	ICD-10-CM
I49.0	Ventricular fibrillation and flutter	Diagnosis	ICD-10-CM
I49.01	Ventricular fibrillation	Diagnosis	ICD-10-CM
I49.02	Ventricular flutter	Diagnosis	ICD-10-CM
I49.2	Junctional premature depolarization	Diagnosis	ICD-10-CM
I49.5	Sick sinus syndrome	Diagnosis	ICD-10-CM
R00.0	Tachycardia, unspecified	Diagnosis	ICD-10-CM
R00.1	Bradycardia, unspecified	Diagnosis	ICD-10-CM

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
<b>Antidementia Use</b>			
S0014	Tacrine HCl, 10 mg	Procedure	HCPCS
<b>Wheelchair or walker use</b>			
E0148	Walker, heavy-duty, without wheels, rigid or folding, any type, each	Procedure	HCPCS
E0149	Walker, heavy-duty, wheeled, rigid or folding, any type	Procedure	HCPCS
E0154	Platform attachment, walker, each	Procedure	HCPCS
E0155	Wheel attachment, rigid pick-up walker, per pair	Procedure	HCPCS
E0156	Seat attachment, walker	Procedure	HCPCS
E0157	Crutch attachment, walker, each	Procedure	HCPCS
E0158	Leg extensions for walker, per set of four	Procedure	HCPCS
E0159	Brake attachment for wheeled walker, replacement, each	Procedure	HCPCS
K0458	Heavy duty walker, without wheels, each	Procedure	HCPCS
K0459	Heavy duty wheeled walker, each	Procedure	HCPCS
L1520	Thoracic-hip-knee-ankle orthotic (THKAO), swivel walker	Procedure	HCPCS
97542	Wheelchair management/propulsion training, each 15 minutes	Procedure	CPT-4
E0192	Low pressure and positioning equalization pad, for wheelchair	Procedure	HCPCS
E0950	Wheelchair accessory, tray, each	Procedure	HCPCS
E0951	Heel loop/holder, any type, with or without ankle strap, each	Procedure	HCPCS
E0952	Toe loop/holder, any type, each	Procedure	HCPCS
E0953	Wheelchair accessory, lateral thigh or knee support, any type including fixed mounting hardware, each	Procedure	HCPCS
E0954	Wheelchair accessory, foot box, any type, includes attachment and mounting hardware, each foot	Procedure	HCPCS
E0955	Wheelchair accessory, headrest, cushioned, any type, including fixed mounting hardware, each	Procedure	HCPCS
E0956	Wheelchair accessory, lateral trunk or hip support, any type, including fixed mounting hardware, each	Procedure	HCPCS
E0957	Wheelchair accessory, medial thigh support, any type, including fixed mounting hardware, each	Procedure	HCPCS
E0958	Manual wheelchair accessory, one-arm drive attachment, each	Procedure	HCPCS
E0959	Manual wheelchair accessory, adapter for amputee, each	Procedure	HCPCS
E0960	Wheelchair accessory, shoulder harness/straps or chest strap, including any type mounting hardware	Procedure	HCPCS
E0961	Manual wheelchair accessory, wheel lock brake extension (handle), each	Procedure	HCPCS
E0962	One-inch cushion, for wheelchair	Procedure	HCPCS
E0963	Two-inch cushion, for wheelchair	Procedure	HCPCS
E0964	Three-inch cushion, for wheelchair	Procedure	HCPCS
E0965	Four-inch cushion, for wheelchair	Procedure	HCPCS
E0966	Manual wheelchair accessory, headrest extension, each	Procedure	HCPCS
E0967	Manual wheelchair accessory, hand rim with projections, any type, replacement only, each	Procedure	HCPCS
E0968	Commode seat, wheelchair	Procedure	HCPCS
E0969	Narrowing device, wheelchair	Procedure	HCPCS
E0970	No. 2 footplates, except for elevating legrest	Procedure	HCPCS
E0971	Manual wheelchair accessory, antitipping device, each	Procedure	HCPCS
E0972	Wheelchair accessory, transfer board or device, each	Procedure	HCPCS



**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E0973	Wheelchair accessory, adjustable height, detachable armrest, complete assembly, each	Procedure	HCPCS
E0974	Manual wheelchair accessory, antirollback device, each	Procedure	HCPCS
E0977	Wedge cushion, wheelchair	Procedure	HCPCS
E0978	Wheelchair accessory, positioning belt/safety belt/pelvic strap, each	Procedure	HCPCS
E0980	Safety vest, wheelchair	Procedure	HCPCS
E0981	Wheelchair accessory, seat upholstery, replacement only, each	Procedure	HCPCS
E0982	Wheelchair accessory, back upholstery, replacement only, each	Procedure	HCPCS
E0983	Manual wheelchair accessory, power add-on to convert manual wheelchair to motorized wheelchair, joystick control	Procedure	HCPCS
E0984	Manual wheelchair accessory, power add-on to convert manual wheelchair to motorized wheelchair, tiller control	Procedure	HCPCS
E0985	Wheelchair accessory, seat lift mechanism	Procedure	HCPCS
E0986	Manual wheelchair accessory, push-rim activated power assist system	Procedure	HCPCS
E0988	Manual wheelchair accessory, lever-activated, wheel drive, pair	Procedure	HCPCS
E0990	Wheelchair accessory, elevating legrest, complete assembly, each	Procedure	HCPCS
E0992	Manual wheelchair accessory, solid seat insert	Procedure	HCPCS
E0994	Armrest, each	Procedure	HCPCS
E0995	Wheelchair accessory, calf rest/pad, replacement only, each	Procedure	HCPCS
E1002	Wheelchair accessory, power seating system, tilt only	Procedure	HCPCS
E1003	Wheelchair accessory, power seating system, recline only, without shear reduction	Procedure	HCPCS
E1004	Wheelchair accessory, power seating system, recline only, with mechanical shear reduction	Procedure	HCPCS
E1005	Wheelchair accessory, power seating system, recline only, with power shear reduction	Procedure	HCPCS
E1006	Wheelchair accessory, power seating system, combination tilt and recline, without shear reduction	Procedure	HCPCS
E1007	Wheelchair accessory, power seating system, combination tilt and recline, with mechanical shear reduction	Procedure	HCPCS
E1008	Wheelchair accessory, power seating system, combination tilt and recline, with power shear reduction	Procedure	HCPCS
E1009	Wheelchair accessory, addition to power seating system, mechanically linked leg elevation system, including pushrod and legrest, each	Procedure	HCPCS
E1010	Wheelchair accessory, addition to power seating system, power leg elevation system, including legrest, pair	Procedure	HCPCS
E1015	Shock absorber for manual wheelchair, each	Procedure	HCPCS
E1016	Shock absorber for power wheelchair, each	Procedure	HCPCS
E1017	Heavy-duty shock absorber for heavy-duty or extra heavy-duty manual wheelchair, each	Procedure	HCPCS
E1018	Heavy-duty shock absorber for heavy-duty or extra heavy-duty power wheelchair, each	Procedure	HCPCS
E1019	Wheelchair accessory, power seating system, heavy duty feature, patient weight capacity greater than 250 pounds and less than or equal to 400 pounds	Procedure	HCPCS
E1020	Residual limb support system for wheelchair, any type	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E1021	Wheelchair accessory, power seating system, extra heavy duty feature, weight capacity greater than 400 pounds	Procedure	HCPCS
E1028	Wheelchair accessory, manual swingaway, retractable or removable mounting hardware for joystick, other control interface or positioning accessory	Procedure	HCPCS
E1029	Wheelchair accessory, ventilator tray, fixed	Procedure	HCPCS
E1030	Wheelchair accessory, ventilator tray, gimbaled	Procedure	HCPCS
E1038	Transport chair, adult size, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
E1039	Transport chair, adult size, heavy-duty, patient weight capacity greater than 300 pounds	Procedure	HCPCS
E1050	Fully-reclining wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1060	Fully-reclining wheelchair, detachable arms, desk or full-length, swing-away detachable elevating legrests	Procedure	HCPCS
E1070	Fully-reclining wheelchair, detachable arms (desk or full-length) swing-away detachable footrest	Procedure	HCPCS
E1083	Hemi-wheelchair, fixed full-length arms, swing-away detachable elevating legrest	Procedure	HCPCS
E1084	Hemi-wheelchair, detachable arms desk or full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1085	Hemi-wheelchair, fixed full-length arms, swing-away detachable footrests	Procedure	HCPCS
E1086	Hemi-wheelchair, detachable arms, desk or full-length, swing-away detachable footrests	Procedure	HCPCS
E1087	High strength lightweight wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1088	High strength lightweight wheelchair, detachable arms desk or full-length, swing-away detachable elevating legrests	Procedure	HCPCS
E1089	High-strength lightweight wheelchair, fixed-length arms, swing-away detachable footrest	Procedure	HCPCS
E1090	High-strength lightweight wheelchair, detachable arms, desk or full-length, swing-away detachable footrests	Procedure	HCPCS
E1092	Wide heavy-duty wheel chair, detachable arms (desk or full-length), swing-away detachable elevating legrests	Procedure	HCPCS
E1093	Wide heavy-duty wheelchair, detachable arms, desk or full-length arms, swing-away detachable footrests	Procedure	HCPCS
E1100	Semi-reclining wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1110	Semi-reclining wheelchair, detachable arms (desk or full-length) elevating legrest	Procedure	HCPCS
E1130	Standard wheelchair, fixed full-length arms, fixed or swing-away detachable footrests	Procedure	HCPCS
E1140	Wheelchair, detachable arms, desk or full-length, swing-away detachable footrests	Procedure	HCPCS
E1150	Wheelchair, detachable arms, desk or full-length swing-away detachable elevating legrests	Procedure	HCPCS
E1160	Wheelchair, fixed full-length arms, swing-away detachable elevating	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E1161	Manual adult size wheelchair, includes tilt in space	Procedure	HCPCS
E1170	Amputee wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1171	Amputee wheelchair, fixed full-length arms, without footrests or legrest	Procedure	HCPCS
E1172	Amputee wheelchair, detachable arms (desk or full-length) without footrests or legrest	Procedure	HCPCS
E1180	Amputee wheelchair, detachable arms (desk or full-length) swing-away detachable footrests	Procedure	HCPCS
E1190	Amputee wheelchair, detachable arms (desk or full-length) swing-away detachable elevating legrests	Procedure	HCPCS
E1195	Heavy-duty wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1200	Amputee wheelchair, fixed full-length arms, swing-away detachable	Procedure	HCPCS
E1210	Motorized wheelchair; fixed full-length arms, swing-away, detachable, elevating legrests	Procedure	HCPCS
E1211	Motorized wheelchair; detachable arms, desk or full-length, swing-away, detachable, elevating legrests	Procedure	HCPCS
E1212	Motorized wheelchair; fixed full-length arms, swing-away, detachable footrests	Procedure	HCPCS
E1213	Motorized wheelchair; detachable arms, desk or full-length, swing-away, detachable footrests	Procedure	HCPCS
E1220	Wheelchair; specially sized or constructed, (indicate brand name, model number, if any) and justification	Procedure	HCPCS
E1221	Wheelchair with fixed arm, footrests	Procedure	HCPCS
E1222	Wheelchair with fixed arm, elevating legrests	Procedure	HCPCS
E1223	Wheelchair with detachable arms, footrests	Procedure	HCPCS
E1224	Wheelchair with detachable arms, elevating legrests	Procedure	HCPCS
E1225	Wheelchair accessory, manual semi-reclining back, (recline greater than 15 degrees, but less than 80 degrees), each	Procedure	HCPCS
E1226	Wheelchair accessory, manual fully reclining back, (recline greater than 80 degrees), each	Procedure	HCPCS
E1227	Special height arms for wheelchair	Procedure	HCPCS
E1228	Special back height for wheelchair	Procedure	HCPCS
E1230	Power operated vehicle (three- or four-wheel nonhighway), specify brand name and model number	Procedure	HCPCS
E1240	Lightweight wheelchair, detachable arms, (desk or full-length) swing-away detachable, elevating legrest	Procedure	HCPCS
E1250	Lightweight wheelchair, fixed full-length arms, swing-away detachable footrest	Procedure	HCPCS
E1260	Lightweight wheelchair, detachable arms (desk or full-length) swing-away detachable footrest	Procedure	HCPCS
E1270	Lightweight wheelchair, fixed full-length arms, swing-away detachable elevating legrests	Procedure	HCPCS
E1280	Heavy-duty wheelchair, detachable arms (desk or full-length) elevating legrests	Procedure	HCPCS
E1285	Heavy-duty wheelchair, fixed full-length arms, swing-away detachable footrest	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E1290	Heavy-duty wheelchair, detachable arms (desk or full-length) swing-away detachable footrest	Procedure	HCPCS
E1295	Heavy-duty wheelchair, fixed full-length arms, elevating legrest	Procedure	HCPCS
E1296	Special wheelchair seat height from floor	Procedure	HCPCS
E1297	Special wheelchair seat depth, by upholstery	Procedure	HCPCS
E1298	Special wheelchair seat depth and/or width, by construction	Procedure	HCPCS
E2201	Manual wheelchair accessory, nonstandard seat frame, width greater than or equal to 20 in and less than 24 in	Procedure	HCPCS
E2202	Manual wheelchair accessory, nonstandard seat frame width, 24-27 in	Procedure	HCPCS
E2203	Manual wheelchair accessory, nonstandard seat frame depth, 20 to less than 22 in	Procedure	HCPCS
E2204	Manual wheelchair accessory, nonstandard seat frame depth, 22 to 25 in	Procedure	HCPCS
E2205	Manual wheelchair accessory, handrim without projections (includes ergonomic or contoured), any type, replacement only, each	Procedure	HCPCS
E2206	Manual wheelchair accessory, wheel lock assembly, complete, replacement only, each	Procedure	HCPCS
E2207	Wheelchair accessory, crutch and cane holder, each	Procedure	HCPCS
E2208	Wheelchair accessory, cylinder tank carrier, each	Procedure	HCPCS
E2209	Accessory, arm trough, with or without hand support, each	Procedure	HCPCS
E2210	Wheelchair accessory, bearings, any type, replacement only, each	Procedure	HCPCS
E2211	Manual wheelchair accessory, pneumatic propulsion tire, any size, each	Procedure	HCPCS
E2212	Manual wheelchair accessory, tube for pneumatic propulsion tire, any size, each	Procedure	HCPCS
E2213	Manual wheelchair accessory, insert for pneumatic propulsion tire (removable), any type, any size, each	Procedure	HCPCS
E2214	Manual wheelchair accessory, pneumatic caster tire, any size, each	Procedure	HCPCS
E2215	Manual wheelchair accessory, tube for pneumatic caster tire, any size, each	Procedure	HCPCS
E2216	Manual wheelchair accessory, foam filled propulsion tire, any size, each	Procedure	HCPCS
E2217	Manual wheelchair accessory, foam filled caster tire, any size, each	Procedure	HCPCS
E2218	Manual wheelchair accessory, foam propulsion tire, any size, each	Procedure	HCPCS
E2219	Manual wheelchair accessory, foam caster tire, any size, each	Procedure	HCPCS
E2220	Manual wheelchair accessory, solid (rubber/plastic) propulsion tire, any size, replacement only, each	Procedure	HCPCS
E2221	Manual wheelchair accessory, solid (rubber/plastic) caster tire (removable), any size, replacement only, each	Procedure	HCPCS
E2222	Manual wheelchair accessory, solid (rubber/plastic) caster tire with integrated wheel, any size, replacement only, each	Procedure	HCPCS
E2224	Manual wheelchair accessory, propulsion wheel excludes tire, any size, replacement only, each	Procedure	HCPCS
E2225	Manual wheelchair accessory, caster wheel excludes tire, any size, replacement only, each	Procedure	HCPCS
E2226	Manual wheelchair accessory, caster fork, any size, replacement only, each	Procedure	HCPCS
E2227	Manual wheelchair accessory, gear reduction drive wheel, each	Procedure	HCPCS
E2228	Manual wheelchair accessory, wheel braking system and lock, complete, each	Procedure	HCPCS
E2230	Manual wheelchair accessory, manual standing system	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E2231	Manual wheelchair accessory, solid seat support base (replaces sling seat), includes any type mounting hardware	Procedure	HCPCS
E2300	Wheelchair accessory, power seat elevation system, any type	Procedure	HCPCS
E2301	Wheelchair accessory, power standing system, any type	Procedure	HCPCS
E2310	Power wheelchair accessory, electronic connection between wheelchair controller and one power seating system motor, including all related electronics, indicator feature, mechanical function selection switch, and fixed mounting hardware	Procedure	HCPCS
E2311	Power wheelchair accessory, electronic connection between wheelchair controller and 2 or more power seating system motors, including all related electronics, indicator feature, mechanical function selection switch, and fixed mounting hardware	Procedure	HCPCS
E2312	Power wheelchair accessory, hand or chin control interface, mini-proportional remote joystick, proportional, including fixed mounting hardware	Procedure	HCPCS
E2313	Power wheelchair accessory, harness for upgrade to expandable controller, including all fasteners, connectors and mounting hardware, each	Procedure	HCPCS
E2321	Power wheelchair accessory, hand control interface, remote joystick, nonproportional, including all related electronics, mechanical stop switch, and fixed mounting hardware	Procedure	HCPCS
E2322	Power wheelchair accessory, hand control interface, multiple mechanical switches, nonproportional, including all related electronics, mechanical stop switch, and fixed mounting hardware	Procedure	HCPCS
E2323	Power wheelchair accessory, specialty joystick handle for hand control interface, prefabricated	Procedure	HCPCS
E2324	Power wheelchair accessory, chin cup for chin control interface	Procedure	HCPCS
E2325	Power wheelchair accessory, sip and puff interface, nonproportional, including all related electronics, mechanical stop switch, and manual swingaway mounting hardware	Procedure	HCPCS
E2326	Power wheelchair accessory, breath tube kit for sip and puff interface	Procedure	HCPCS
E2327	Power wheelchair accessory, head control interface, mechanical, proportional, including all related electronics, mechanical direction change switch, and fixed mounting hardware	Procedure	HCPCS
E2328	Power wheelchair accessory, head control or extremity control interface, electronic, proportional, including all related electronics and fixed mounting hardware	Procedure	HCPCS
E2329	Power wheelchair accessory, head control interface, contact switch mechanism, nonproportional, including all related electronics, mechanical stop switch, mechanical direction change switch, head array, and fixed mounting hardware	Procedure	HCPCS
E2330	Power wheelchair accessory, head control interface, proximity switch mechanism, nonproportional, including all related electronics, mechanical stop switch, mechanical direction change switch, head array, and fixed mounting hardware	Procedure	HCPCS
E2331	Power wheelchair accessory, attendant control, proportional, including all related electronics and fixed mounting hardware	Procedure	HCPCS
E2340	Power wheelchair accessory, nonstandard seat frame width, 20-23 in	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E2341	Power wheelchair accessory, nonstandard seat frame width, 24-27 in	Procedure	HCPCS
E2342	Power wheelchair accessory, nonstandard seat frame depth, 20 or 21 in	Procedure	HCPCS
E2343	Power wheelchair accessory, nonstandard seat frame depth, 22-25 in	Procedure	HCPCS
E2351	Power wheelchair accessory, electronic interface to operate speech generating device using power wheelchair control interface	Procedure	HCPCS
E2358	Power wheelchair accessory, group 34 nonsealed lead acid battery, each	Procedure	HCPCS
E2359	Power wheelchair accessory, group 34 sealed lead acid battery, each (e.g., gel cell, absorbed glass mat)	Procedure	HCPCS
E2360	Power wheelchair accessory, 22 NF nonsealed lead acid battery, each	Procedure	HCPCS
E2361	Power wheelchair accessory, 22 NF sealed lead acid battery, each (e.g., gel cell, absorbed glassmat)	Procedure	HCPCS
E2362	Power wheelchair accessory, group 24 nonsealed lead acid battery, each	Procedure	HCPCS
E2363	Power wheelchair accessory, group 24 sealed lead acid battery, each (e.g., gel cell, absorbed glassmat)	Procedure	HCPCS
E2364	Power wheelchair accessory, U-1 nonsealed lead acid battery, each	Procedure	HCPCS
E2365	Power wheelchair accessory, U-1 sealed lead acid battery, each (e.g., gel cell, absorbed glassmat)	Procedure	HCPCS
E2366	Power wheelchair accessory, battery charger, single mode, for use with only one battery type, sealed or nonsealed, each	Procedure	HCPCS
E2367	Power wheelchair accessory, battery charger, dual mode, for use with either battery type, sealed or nonsealed, each	Procedure	HCPCS
E2368	Power wheelchair component, drive wheel motor, replacement only	Procedure	HCPCS
E2369	Power wheelchair component, drive wheel gear box, replacement only	Procedure	HCPCS
E2370	Power wheelchair component, integrated drive wheel motor and gear box combination, replacement only	Procedure	HCPCS
E2371	Power wheelchair accessory, group 27 sealed lead acid battery, (e.g., gel cell, absorbed glassmat), each	Procedure	HCPCS
E2372	Power wheelchair accessory, group 27 nonsealed lead acid battery, each	Procedure	HCPCS
E2373	Power wheelchair accessory, hand or chin control interface, compact remote joystick, proportional, including fixed mounting hardware	Procedure	HCPCS
E2374	Power wheelchair accessory, hand or chin control interface, standard remote joystick (not including controller), proportional, including all related electronics and fixed mounting hardware, replacement only	Procedure	HCPCS
E2375	Power wheelchair accessory, nonexpandable controller, including all related electronics and mounting hardware, replacement only	Procedure	HCPCS
E2376	Power wheelchair accessory, expandable controller, including all related electronics and mounting hardware, replacement only	Procedure	HCPCS
E2377	Power wheelchair accessory, expandable controller, including all related electronics and mounting hardware, upgrade provided at initial issue	Procedure	HCPCS
E2378	Power wheelchair component, actuator, replacement only	Procedure	HCPCS
E2381	Power wheelchair accessory, pneumatic drive wheel tire, any size, replacement only, each	Procedure	HCPCS
E2382	Power wheelchair accessory, tube for pneumatic drive wheel tire, any size, replacement only, each	Procedure	HCPCS
E2383	Power wheelchair accessory, insert for pneumatic drive wheel tire (removable), any type, any size, replacement only, each	Procedure	HCPCS



**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E2384	Power wheelchair accessory, pneumatic caster tire, any size, replacement only, each	Procedure	HCPCS
E2385	Power wheelchair accessory, tube for pneumatic caster tire, any size, replacement only, each	Procedure	HCPCS
E2386	Power wheelchair accessory, foam filled drive wheel tire, any size, replacement only, each	Procedure	HCPCS
E2387	Power wheelchair accessory, foam filled caster tire, any size, replacement only, each	Procedure	HCPCS
E2388	Power wheelchair accessory, foam drive wheel tire, any size, replacement only, each	Procedure	HCPCS
E2389	Power wheelchair accessory, foam caster tire, any size, replacement only, each	Procedure	HCPCS
E2390	Power wheelchair accessory, solid (rubber/plastic) drive wheel tire, any size, replacement only, each	Procedure	HCPCS
E2391	Power wheelchair accessory, solid (rubber/plastic) caster tire (removable), any size, replacement only, each	Procedure	HCPCS
E2392	Power wheelchair accessory, solid (rubber/plastic) caster tire with integrated wheel, any size, replacement only, each	Procedure	HCPCS
E2394	Power wheelchair accessory, drive wheel excludes tire, any size, replacement only, each	Procedure	HCPCS
E2395	Power wheelchair accessory, caster wheel excludes tire, any size, replacement only, each	Procedure	HCPCS
E2396	Power wheelchair accessory, caster fork, any size, replacement only, each	Procedure	HCPCS
E2397	Power wheelchair accessory, lithium-based battery, each	Procedure	HCPCS
E2601	General use wheelchair seat cushion, width less than 22 in, any depth	Procedure	HCPCS
E2602	General use wheelchair seat cushion, width 22 in or greater, any depth	Procedure	HCPCS
E2603	Skin protection wheelchair seat cushion, width less than 22 in, any depth	Procedure	HCPCS
E2604	Skin protection wheelchair seat cushion, width 22 in or greater, any depth	Procedure	HCPCS
E2605	Positioning wheelchair seat cushion, width less than 22 in, any depth	Procedure	HCPCS
E2606	Positioning wheelchair seat cushion, width 22 in or greater, any depth	Procedure	HCPCS
E2607	Skin protection and positioning wheelchair seat cushion, width less than 22 in, any depth	Procedure	HCPCS
E2608	Skin protection and positioning wheelchair seat cushion, width 22 in or greater, any depth	Procedure	HCPCS
E2609	Custom fabricated wheelchair seat cushion, any size	Procedure	HCPCS
E2610	Wheelchair seat cushion, powered	Procedure	HCPCS
E2611	General use wheelchair back cushion, width less than 22 in, any height, including any type mounting hardware	Procedure	HCPCS
E2612	General use wheelchair back cushion, width 22 in or greater, any height, including any type mounting hardware	Procedure	HCPCS
E2613	Positioning wheelchair back cushion, posterior, width less than 22 in, any height, including any type mounting hardware	Procedure	HCPCS
E2614	Positioning wheelchair back cushion, posterior, width 22 in or greater, any height, including any type mounting hardware	Procedure	HCPCS
E2615	Positioning wheelchair back cushion, posterior-lateral, width less than 22 in, any height, including any type mounting hardware	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E2616	Positioning wheelchair back cushion, posterior-lateral, width 22 in or greater, any height, including any type mounting hardware	Procedure	HCPCS
E2617	Custom fabricated wheelchair back cushion, any size, including any type mounting hardware	Procedure	HCPCS
E2619	Replacement cover for wheelchair seat cushion or back cushion, each	Procedure	HCPCS
E2620	Positioning wheelchair back cushion, planar back with lateral supports, width less than 22 in, any height, including any type mounting hardware	Procedure	HCPCS
E2621	Positioning wheelchair back cushion, planar back with lateral supports, width 22 in or greater, any height, including any type mounting hardware	Procedure	HCPCS
E2622	Skin protection wheelchair seat cushion, adjustable, width less than 22 in, any depth	Procedure	HCPCS
E2623	Skin protection wheelchair seat cushion, adjustable, width 22 in or greater, any depth	Procedure	HCPCS
E2624	Skin protection and positioning wheelchair seat cushion, adjustable, width less than 22 in, any depth	Procedure	HCPCS
E2625	Skin protection and positioning wheelchair seat cushion, adjustable, width 22 in or greater, any depth	Procedure	HCPCS
E2626	Wheelchair accessory, shoulder elbow, mobile arm support attached to wheelchair, balanced, adjustable	Procedure	HCPCS
E2627	Wheelchair accessory, shoulder elbow, mobile arm support attached to wheelchair, balanced, adjustable Rancho type	Procedure	HCPCS
E2628	Wheelchair accessory, shoulder elbow, mobile arm support attached to wheelchair, balanced, reclining	Procedure	HCPCS
E2629	Wheelchair accessory, shoulder elbow, mobile arm support attached to wheelchair, balanced, friction arm support (friction dampening to proximal and distal joints)	Procedure	HCPCS
E2630	Wheelchair accessory, shoulder elbow, mobile arm support, monosuspension arm and hand support, overhead elbow forearm hand sling support, yoke type suspension support	Procedure	HCPCS
E2631	Wheelchair accessory, addition to mobile arm support, elevating proximal arm	Procedure	HCPCS
E2632	Wheelchair accessory, addition to mobile arm support, offset or lateral rocker arm with elastic balance control	Procedure	HCPCS
E2633	Wheelchair accessory, addition to mobile arm support, supinator	Procedure	HCPCS
G9156	Evaluation for wheelchair requiring face-to-face visit with physician	Procedure	HCPCS
K0001	Standard wheelchair	Procedure	HCPCS
K0002	Standard hemi (low seat) wheelchair	Procedure	HCPCS
K0003	Lightweight wheelchair	Procedure	HCPCS
K0004	High strength, lightweight wheelchair	Procedure	HCPCS
K0005	Ultralightweight wheelchair	Procedure	HCPCS
K0006	Heavy-duty wheelchair	Procedure	HCPCS
K0007	Extra heavy-duty wheelchair	Procedure	HCPCS
K0008	Custom manual wheelchair/base	Procedure	HCPCS
K0009	Other manual wheelchair/base	Procedure	HCPCS
K0010	Standard-weight frame motorized/power wheelchair	Procedure	HCPCS



**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K0011	Standard-weight frame motorized/power wheelchair with programmable control parameters for speed adjustment, tremor dampening, acceleration control and braking	Procedure	HCPCS
K0012	Lightweight portable motorized/power wheelchair	Procedure	HCPCS
K0013	Custom motorized/power wheelchair base	Procedure	HCPCS
K0014	Other motorized/power wheelchair base	Procedure	HCPCS
K0015	Detachable, nonadjustable height armrest, each	Procedure	HCPCS
K0017	Detachable, adjustable height armrest, base, each	Procedure	HCPCS
K0018	Detachable, adjustable height armrest, upper portion, replacement only, each	Procedure	HCPCS
K0019	Arm pad, each	Procedure	HCPCS
K0020	Fixed, adjustable height armrest, pair	Procedure	HCPCS
K0037	High mount flip-up footrest, each	Procedure	HCPCS
K0038	Leg strap, each	Procedure	HCPCS
K0039	Leg strap, H style, each	Procedure	HCPCS
K0040	Adjustable angle footplate, each	Procedure	HCPCS
K0041	Large size footplate, each	Procedure	HCPCS
K0042	Standard size footplate, each	Procedure	HCPCS
K0043	Footrest, lower extension tube, replacement only, each	Procedure	HCPCS
K0044	Footrest, upper hanger bracket, each	Procedure	HCPCS
K0045	Footrest, complete assembly, replacement only, each	Procedure	HCPCS
K0046	Elevating legrest, lower extension tube, replacement only, each	Procedure	HCPCS
K0047	Elevating legrest, upper hanger bracket, replacement only, each	Procedure	HCPCS
K0050	Ratchet assembly, replacement only	Procedure	HCPCS
K0051	Cam release assembly, footrest or legrest, replacement only, each	Procedure	HCPCS
K0052	Swingaway, detachable footrests, replacement only, each	Procedure	HCPCS
K0053	Elevating footrests, articulating (telescoping), each	Procedure	HCPCS
K0056	Seat height less than 17 in or equal to or greater than 21 in for a high-strength, lightweight, or ultralightweight wheelchair	Procedure	HCPCS
K0065	Spoke protectors, each	Procedure	HCPCS
K0069	Rear wheel assembly, complete, with solid tire, spokes or molded, replacement only, each	Procedure	HCPCS
K0070	Rear wheel assembly, complete, with pneumatic tire, spokes or molded, replacement only, each	Procedure	HCPCS
K0071	Front caster assembly, complete, with pneumatic tire, replacement only, each	Procedure	HCPCS
K0072	Front caster assembly, complete, with semipneumatic tire, each	Procedure	HCPCS
K0073	Caster pin lock, each	Procedure	HCPCS
K0077	Front caster assembly, complete, with solid tire, each	Procedure	HCPCS
K0098	Drive belt for power wheelchair, replacement only	Procedure	HCPCS
K0105	IV hanger, each	Procedure	HCPCS
K0108	Wheelchair component or accessory, not otherwise specified	Procedure	HCPCS
K0195	Elevating legrests, pair (for use with capped rental wheelchair base)	Procedure	HCPCS
K0669	Wheelchair accessory, wheelchair seat or back cushion, does not meet specific code criteria or no written coding verification from DME PDAC	Procedure	HCPCS
K0733	Power wheelchair accessory, 12 to 24 amp hour sealed lead acid battery, each (e.g., gel cell, absorbed glassmat)	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K0734	Skin protection wheelchair seat cushion, adjustable, width less than 22 in, any depth	Procedure	HCPCS
K0735	Skin protection wheelchair seat cushion, adjustable, width 22 in or greater, any depth	Procedure	HCPCS
K0736	Skin protection and positioning wheelchair seat cushion, adjustable, width less than 22 in, any depth	Procedure	HCPCS
K0737	Skin protection and positioning wheelchair seat cushion, adjustable, width 22 in or greater, any depth	Procedure	HCPCS
K0800	Power operated vehicle, group 1 standard, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0801	Power operated vehicle, group 1 heavy-duty, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0802	Power operated vehicle, group 1 very heavy-duty, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0806	Power operated vehicle, group 2 standard, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0807	Power operated vehicle, group 2 heavy-duty, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0808	Power operated vehicle, group 2 very heavy-duty, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0812	Power operated vehicle, not otherwise classified	Procedure	HCPCS
K0813	Power wheelchair, group 1 standard, portable, sling/solid seat and back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0814	Power wheelchair, group 1 standard, portable, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0815	Power wheelchair, group 1 standard, sling/solid seat and back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0816	Power wheelchair, group 1 standard, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0820	Power wheelchair, group 2 standard, portable, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0821	Power wheelchair, group 2 standard, portable, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0822	Power wheelchair, group 2 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0823	Power wheelchair, group 2 standard, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0824	Power wheelchair, group 2 heavy-duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0825	Power wheelchair, group 2 heavy-duty, captain's chair, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0826	Power wheelchair, group 2 very heavy-duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0827	Power wheelchair, group 2 very heavy-duty, captain's chair, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0828	Power wheelchair, group 2 extra heavy-duty, sling/solid seat/back, patient weight capacity 601 pounds or more	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K0829	Power wheelchair, group 2 extra heavy-duty, captain's chair, patient weight 601 pounds or more	Procedure	HCPCS
K0830	Power wheelchair, group 2 standard, seat elevator, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0831	Power wheelchair, group 2 standard, seat elevator, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0835	Power wheelchair, group 2 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0836	Power wheelchair, group 2 standard, single power option, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0837	Power wheelchair, group 2 heavy-duty, single power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0838	Power wheelchair, group 2 heavy-duty, single power option, captain's chair, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0839	Power wheelchair, group 2 very heavy-duty, single power option sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0840	Power wheelchair, group 2 extra heavy-duty, single power option, sling/solid seat/back, patient weight capacity 601 pounds or more	Procedure	HCPCS
K0841	Power wheelchair, group 2 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0842	Power wheelchair, group 2 standard, multiple power option, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0843	Power wheelchair, group 2 heavy-duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0848	Power wheelchair, group 3 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0849	Power wheelchair, group 3 standard, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0850	Power wheelchair, group 3 heavy-duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0851	Power wheelchair, group 3 heavy-duty, captain's chair, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0852	Power wheelchair, group 3 very heavy-duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0853	Power wheelchair, group 3 very heavy-duty, captain's chair, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0854	Power wheelchair, group 3 extra heavy-duty, sling/solid seat/back, patient weight capacity 601 pounds or more	Procedure	HCPCS
K0855	Power wheelchair, group 3 extra heavy-duty, captain's chair, patient weight capacity 601 pounds or more	Procedure	HCPCS
K0856	Power wheelchair, group 3 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0857	Power wheelchair, group 3 standard, single power option, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0858	Power wheelchair, group 3 heavy-duty, single power option, sling/solid seat/back, patient weight 301 to 450 pounds	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
K0859	Power wheelchair, group 3 heavy-duty, single power option, captain's chair, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0860	Power wheelchair, group 3 very heavy-duty, single power option, sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0861	Power wheelchair, group 3 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0862	Power wheelchair, group 3 heavy-duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0863	Power wheelchair, group 3 very heavy-duty, multiple power option, sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0864	Power wheelchair, group 3 extra heavy-duty, multiple power option, sling/solid seat/back, patient weight capacity 601 pounds or more	Procedure	HCPCS
K0868	Power wheelchair, group 4 standard, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0869	Power wheelchair, group 4 standard, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0870	Power wheelchair, group 4 heavy-duty, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0871	Power wheelchair, group 4 very heavy-duty, sling/solid seat/back, patient weight capacity 451 to 600 pounds	Procedure	HCPCS
K0877	Power wheelchair, group 4 standard, single power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0878	Power wheelchair, group 4 standard, single power option, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0879	Power wheelchair, group 4 heavy-duty, single power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0880	Power wheelchair, group 4 very heavy-duty, single power option, sling/solid seat/back, patient weight 451 to 600 pounds	Procedure	HCPCS
K0884	Power wheelchair, group 4 standard, multiple power option, sling/solid seat/back, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0885	Power wheelchair, group 4 standard, multiple power option, captain's chair, patient weight capacity up to and including 300 pounds	Procedure	HCPCS
K0886	Power wheelchair, group 4 heavy-duty, multiple power option, sling/solid seat/back, patient weight capacity 301 to 450 pounds	Procedure	HCPCS
K0898	Power wheelchair, not otherwise classified	Procedure	HCPCS
K0899	Power mobility device, not coded by DME PDAC or does not meet criteria	Procedure	HCPCS
L3964	Shoulder-elbow orthotic (SEO), mobile arm support attached to wheelchair, balanced, adjustable, prefabricated, includes fitting and adjustment	Procedure	HCPCS
L3965	Shoulder-elbow orthotic (SEO), mobile arm support attached to wheelchair, balanced, adjustable Rancho type, prefabricated, includes fitting and adjustment	Procedure	HCPCS
L3966	Shoulder-elbow orthotic (SEO), mobile arm support attached to wheelchair, balanced, reclining, prefabricated, includes fitting and adjustment	Procedure	HCPCS
L3968	Shoulder-elbow orthotic (SEO), mobile arm support attached to wheelchair, balanced, friction arm support (friction dampening to proximal and distal joints), prefabricated, includes fitting and adjustment	Procedure	HCPCS

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

Code	Description	Code Category	Code Type
L3969	Shoulder-elbow orthotic (SEO), mobile arm support, monosuspension arm and hand support, overhead elbow forearm hand sling support, yoke type suspension support, prefabricated, includes fitting and adjustment	Procedure	HCPCS
L3970	Shoulder-elbow orthotic (SEO), addition to mobile arm support, elevating proximal arm	Procedure	HCPCS
L3972	Shoulder-elbow orthotic (SEO), addition to mobile arm support, offset or lateral rocker arm with elastic balance control	Procedure	HCPCS
L3974	Shoulder-elbow orthotic (SEO), addition to mobile arm support, supinator	Procedure	HCPCS
<b>Diuretic Use</b>			
4190F	Appropriate diuretic therapeutic monitoring test ordered or performed (AM)	Procedure	CPT-2
4221F	Diuretic medication therapy for 6 months or more (MM)	Procedure	CPT-2
78708	Kidney imaging morphology; with vascular flow and function, single study, with pharmacological intervention (eg, angiotensin converting enzyme inhibitor and/or diuretic)	Procedure	CPT-4
78709	Kidney imaging morphology; with vascular flow and function, multiple studies, with and without pharmacological intervention (eg, angiotensin converting enzyme inhibitor and/or diuretic)	Procedure	CPT-4
84588	Vasopressin (antidiuretic hormone, ADH)	Procedure	CPT-4
S9361	Home infusion therapy, diuretic intravenous therapy; administrative services, professional pharmacy services, care coordination, and all necessary supplies and equipment (drugs and nursing visits coded separately), per diem	Procedure	HCPCS
<b>Antidepressant Use</b>			
4064F	Antidepressant pharmacotherapy prescribed (MDD, MDD ADOL)	Procedure	CPT-2
80332	Antidepressants, serotonergic class; 1 or 2	Procedure	CPT-4
80333	Antidepressants, serotonergic class; 3-5	Procedure	CPT-4
80334	Antidepressants, serotonergic class; 6 or more	Procedure	CPT-4
80335	Antidepressants, tricyclic and other cyclicals; 1 or 2	Procedure	CPT-4
80336	Antidepressants, tricyclic and other cyclicals; 3-5	Procedure	CPT-4
80337	Antidepressants, tricyclic and other cyclicals; 6 or more	Procedure	CPT-4
80338	Antidepressants, not otherwise specified	Procedure	CPT-4
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
G8129	Patient documented as being treated with antidepressant medication for at least 6 months continuous treatment phase	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
<b>Gastric Acid Suppressant Use</b>			
4185F	Continuous (12-months) therapy with proton pump inhibitor (PPI) or histamine H2 receptor antagonist (H2RA) received (GERD)	Procedure	CPT-2
<b>Benzodiazepine Use</b>			
80154	Benzodiazepines	Procedure	CPT-4
80346	Benzodiazepines; 1-12	Procedure	CPT-4
80347	Benzodiazepines; 13 or more	Procedure	CPT-4

**Appendix G. List of Current Procedural Terminology, Fourth Edition (CPT-4), Current Procedural Terminology, Second Edition (CPT-2), and Healthcare Common Procedure Coding System, Level II (HCPCS) Codes Used to Define Covariates in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
80368	Sedative hypnotics (non-benzodiazepines)	Procedure	CPT-4
G0033	Two or more benzodiazepine prescriptions ordered for patients who had a diagnosis of seizure disorders, rapid eye movement sleep behavior disorder, benzodiazepine withdrawal, ethanol withdrawal, or severe generalized anxiety disorder on or between January 1 of the year prior to the measurement period and the IPSD for benzodiazepines	Procedure	HCPCS
G6031	Assay of benzodiazepines	Procedure	HCPCS

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

Generic Name	Brand Name
<b>Antidementia Use</b>	
donepezil HCl	Aricept
donepezil HCl	Aricept ODT
donepezil HCl	donepezil
galantamine HBr	Razadyne
galantamine HBr	Razadyne ER
galantamine HBr	galantamine
memantine HCl	Namenda
memantine HCl	Namenda Titration Pak
memantine HCl	Namenda XR
memantine HCl	memantine
memantine HCl/donepezil HCl	Namzaric
rivastigmine	Exelon Patch
rivastigmine	rivastigmine
rivastigmine tartrate	Exelon
rivastigmine tartrate	rivastigmine tartrate
tacrine HCl	Cognex
<b>ACE Inhibitor Use</b>	
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
benazepril HCl	Lotensin
benazepril HCl	benazepril
benazepril HCl/hydrochlorothiazide	Lotensin HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
captopril	Capoten
captopril	captopril
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
enalapril maleate	Epaned
enalapril maleate	Vasotec
enalapril maleate	enalapril maleate
enalapril maleate/hydrochlorothiazide	Vaseretic
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
enalaprilat dihydrate	enalaprilat
fosinopril sodium	Monopril
fosinopril sodium	fosinopril
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
lisinopril	Prinivil
lisinopril	Qbrelis
lisinopril	Zestril
lisinopril	lisinopril
lisinopril/dietary supplement,comb.10	Lytensopril
lisinopril/dietary supplement,comb.10	Lytensopril-90

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Generic Name	Brand Name
lisinopril/hydrochlorothiazide	Prinzide
lisinopril/hydrochlorothiazide	Zestoretic
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
moexipril HCl	Univasc
moexipril HCl	moexipril
moexipril HCl/hydrochlorothiazide	Uniretic
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
perindopril arginine/amlodipine besylate	Prestalia
perindopril erbumine	Aceon
perindopril erbumine	perindopril erbumine
quinapril HCl	Accupril
quinapril HCl	quinapril
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	Quinaretic
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
ramipril	Altace
ramipril	ramipril
trandolapril	Mavik
trandolapril	trandolapril
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil

**ARB Use**

amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
azilsartan medoxomil	Edarbi
azilsartan medoxomil/chlorthalidone	Edarbyclor
candesartan cilexetil	Atacand
candesartan cilexetil	candesartan
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
eprosartan mesylate	Teveten
eprosartan mesylate	eprosartan
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
irbesartan	Avapro



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

<b>Generic Name</b>	<b>Brand Name</b>
irbesartan	irbesartan
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
losartan potassium	Cozaar
losartan potassium	losartan
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
nebivolol HCl/valsartan	Byvalson
olmesartan medoxomil	Benicar
olmesartan medoxomil	olmesartan
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
sacubitril/valsartan	Entresto
telmisartan	Micardis
telmisartan	telmisartan
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
valsartan	Diovan
valsartan	valsartan
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
<b>Beta Blocker Use</b>	
acebutolol HCl	Sectral
acebutolol HCl	acebutolol
atenolol	Tenormin
atenolol	atenolol
betaxolol HCl	Betoptic S
betaxolol HCl	Kerlone
betaxolol HCl	betaxolol
bisoprolol fumarate	Zebeta
bisoprolol fumarate	bisoprolol fumarate
canakinumab/PF	Ilaris (PF)
carteolol HCl	carteolol
carvedilol	Coreg
carvedilol	carvedilol
carvedilol phosphate	Coreg CR

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

<b>Generic Name</b>	<b>Brand Name</b>
carvedilol phosphate	carvedilol phosphate
esmolol HCl	Brevibloc
esmolol HCl	esmolol
esmolol HCl in sodium chloride, iso-osmotic	Brevibloc in NaCl (iso-osm)
esmolol HCl in sodium chloride, iso-osmotic	esmolol in NaCl (iso-osm)
esmolol HCl in sterile water	esmolol in sterile water
labetalol HCl	Trandate
labetalol HCl	labetalol
labetalol HCl in dextrose, iso-osmotic	labetalol in dextrose,iso-osm
labetalol HCl in sodium chloride, iso-osmotic	labetalol in NaCl (iso-osmot)
labetalol in dextrose 5 % in water	labetalol in dextrose 5 %
levobunolol HCl	Betagan
levobunolol HCl	levobunolol
metipranolol	Optipranolol
metipranolol	metipranolol
metoprolol succinate	Kaspargo Sprinkle
metoprolol succinate	Toprol XL
metoprolol succinate	metoprolol succinate
metoprolol tartrate	Lopressor
metoprolol tartrate	metoprolol tartrate
metoprolol tartrate/dietary supplement,comb.10	Hypertensolol
nadolol	Corgard
nadolol	nadolol
nebivolol HCl	Bystolic
nebivolol HCl	nebivolol
penbutolol sulfate	Levatol
pindolol	pindolol
propranolol HCl	Hemangeol
propranolol HCl	Inderal
propranolol HCl	Inderal LA
propranolol HCl	Inderal XL
propranolol HCl	InnoPran XL
propranolol HCl	propranolol
sotalol HCl	Betapace
sotalol HCl	Betapace AF
sotalol HCl	Sorine
sotalol HCl	Sotalol AF
sotalol HCl	Sotylize
sotalol HCl	sotalol
timolol	Betimol

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

<b>Generic Name</b>	<b>Brand Name</b>
timolol maleate	Istalol
timolol maleate	Timoptic
timolol maleate	Timoptic-XE
timolol maleate	timolol maleate
timolol maleate/PF	Timoptic Ocudose (PF)
timolol maleate/PF	timolol maleate (PF)
<b>Oral Anticoagulant Use</b>	
apixaban	Eliquis
apixaban	Eliquis DVT-PE Treat 30D Start
betrixaban maleate	Bevyxxa
dabigatran etexilate mesylate	Pradaxa
edoxaban tosylate	Savaysa
rivaroxaban	Xarelto
rivaroxaban	Xarelto DVT-PE Treat 30d Start
warfarin sodium	Coumadin
warfarin sodium	Jantoven
warfarin sodium	warfarin
<b>Antiplatelet Agent Use</b>	
abciximab	Reopro
anagrelide HCl	Agrylin
anagrelide HCl	anagrelide
aspirin	Adult Aspirin EC Low Strength
aspirin	Adult Aspirin Regimen
aspirin	Adult Low Dose Aspirin
aspirin	Analgesic
aspirin	AsperDrink
aspirin	Aspir-81
aspirin	Aspir-Low
aspirin	Aspir-Trin
aspirin	Aspirin Childrens
aspirin	Aspirin Extra Strength
aspirin	Aspirin Low Dose
aspirin	Aspirin Low-Strength
aspirin	Aspirina
aspirin	Baby Aspirin
aspirin	Bayer Advanced
aspirin	Bayer Aspirin
aspirin	Bayer Chewable Aspirin
aspirin	Child Aspirin
aspirin	Children's Aspirin
aspirin	Durlaza
aspirin	E.C. Prin

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

<b>Generic Name</b>	<b>Brand Name</b>
aspirin	EC Aspirin
aspirin	Ecotrin
aspirin	Ecotrin Low Strength
aspirin	Ecotrin Maximum Strength
aspirin	Enteric Coated Aspirin
aspirin	Extra Strength Bayer
aspirin	Genacote
aspirin	Halfprin
aspirin	Lite Coat Aspirin
aspirin	Lo-Dose Aspirin
aspirin	Miniprin
aspirin	St Joseph Aspirin
aspirin	St. Joseph Aspirin
aspirin	St. Joseph Low-Dose Aspirin
aspirin	Stanback Headache Powder
aspirin	Vazalore
aspirin	aspirin
aspirin/calcium carbonate	Women's Aspirin with Calcium
aspirin/dipyridamole	Aggrenox
aspirin/dipyridamole	aspirin-dipyridamole
aspirin/omeprazole	Yosprala
aspirin/omeprazole	aspirin-omeprazole
cangrelor tetrasodium	Kengreal
cilostazol	Pletal
cilostazol	cilostazol
clopidogrel bisulfate	Plavix
clopidogrel bisulfate	clopidogrel
dipyridamole	Persantine
dipyridamole	dipyridamole
eptifibatide	Integrilin
eptifibatide	eptifibatide
prasugrel HCl	Effient
prasugrel HCl	prasugrel
ticagrelor	Brilinta
ticlopidine HCl	ticlopidine
tirofiban HCl monohydrate	Aggrastat Concentrate
tirofiban HCl monohydrate in 0.9 % sodium chloride	Aggrastat in sodium chloride
vorapaxar sulfate	Zontivity
<b>Opioid Use</b>	
acetaminophen with codeine phosphate	Capital with Codeine
acetaminophen with codeine phosphate	Cocet

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<b>Generic Name</b>	<b>Brand Name</b>
acetaminophen with codeine phosphate	Cocet Plus
acetaminophen with codeine phosphate	Tylenol-Codeine #3
acetaminophen with codeine phosphate	Tylenol-Codeine #4
acetaminophen with codeine phosphate	Vopac
acetaminophen with codeine phosphate	acetaminophen-codeine
acetaminophen/caffeine/dihydrocodeine bitartrate	Dvorah
acetaminophen/caffeine/dihydrocodeine bitartrate	Panlor(acetam-caff-dihydrocod)
acetaminophen/caffeine/dihydrocodeine bitartrate	Trezix
acetaminophen/caffeine/dihydrocodeine bitartrate	acetaminophen-caff-dihydrocod
alfentanil HCl	Alfenta
alfentanil HCl	alfentanil
benzhydrocodone HCl/acetaminophen	Apadaz
benzhydrocodone HCl/acetaminophen	benzhydrocodone-acetaminophen
buprenorphine	Butrans
buprenorphine	buprenorphine
buprenorphine HCl	Belbuca
buprenorphine HCl	Buprenex
buprenorphine HCl	buprenorphine HCl
butalbital/acetaminophen/caffeine/codeine phosphate	Fioricet with Codeine
butalbital/acetaminophen/caffeine/codeine phosphate	butalbital-acetaminop-caf-cod
butorphanol tartrate	Stadol
butorphanol tartrate	butorphanol
codeine phosphate	codeine phosphate
codeine phosphate/butalbital/aspirin/caffeine	Ascomp with Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound W/Codeine
codeine phosphate/butalbital/aspirin/caffeine	Butalbital Compound-Codeine
codeine phosphate/butalbital/aspirin/caffeine	Fiorinal-Codeine #3
codeine phosphate/butalbital/aspirin/caffeine	codeine-butalbital-ASA-caff
codeine sulfate	codeine sulfate
difelikefalin acetate	Korsuva

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

<b>Generic Name</b>	<b>Brand Name</b>
fentanyl	Duragesic
fentanyl	Subsys
fentanyl	fentanyl
fentanyl HCl	lonsys
fentanyl citrate	Abstral
fentanyl citrate	Actiq
fentanyl citrate	Fentora
fentanyl citrate	Lazanda
fentanyl citrate	Onsolis
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	Anexsia
hydrocodone bitartrate/acetaminophen	Co-Gesic
hydrocodone bitartrate/acetaminophen	Dolorex Forte
hydrocodone bitartrate/acetaminophen	Hycet
hydrocodone bitartrate/acetaminophen	Hydrogesic
hydrocodone bitartrate/acetaminophen	Lorcet (hydrocodone)
hydrocodone bitartrate/acetaminophen	Lorcet 10/650
hydrocodone bitartrate/acetaminophen	Lorcet HD
hydrocodone bitartrate/acetaminophen	Lorcet Plus
hydrocodone bitartrate/acetaminophen	Lortab
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	Margesic-H
hydrocodone bitartrate/acetaminophen	Maxidone
hydrocodone bitartrate/acetaminophen	Norco
hydrocodone bitartrate/acetaminophen	Polygesic
hydrocodone bitartrate/acetaminophen	Stagesic
hydrocodone bitartrate/acetaminophen	Verdrocet
hydrocodone bitartrate/acetaminophen	Vicodin
hydrocodone bitartrate/acetaminophen	Vicodin ES

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<b>Generic Name</b>	<b>Brand Name</b>
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	Zolvit
hydrocodone bitartrate/acetaminophen	Zydone
hydrocodone bitartrate/acetaminophen	hydrocodone-acetaminophen
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-325
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-650
hydrocodone bitartrate/acetaminophen/dietary supplement #11	Theracodophen-Low-90
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Vicoprofen
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 chloride/PF	hydromorphone-bupiv (PF)-NaCl
hydromorphone HCl/ropivacaine in 0.9 % sodium chloride/PF	hydromorph(PF)-ropiv-0.9% NaCl

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

<b>Generic Name</b>	<b>Brand Name</b>
ibuprofen/oxycodone HCl	Combunox
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
levorphanol tartrate	levorphanol tartrate
meperidine HCl	Demerol
meperidine HCl	Meperitab
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	Avinza
morphine sulfate	Kadian
morphine sulfate	MS Contin
morphine sulfate	MorphaBond ER
morphine sulfate	Oramorph SR
morphine sulfate	Roxanol Concentrate
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 in sodium chloride, iso-osmotic/PF	morphine(PF)in iso sod chlorid
morphine sulfate liposomal/PF	DepoDur (PF)
morphine sulfate/PF	Astramorph-PF
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
nalbuphine HCl	nalbuphine
oliceridine fumarate	Olinvyk



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

<b>Generic Name</b>	<b>Brand Name</b>
oxycodone HCl	Dazidox
oxycodone HCl	ETH-Oxydose
oxycodone HCl	Oxaydo
oxycodone HCl	Oxecta
oxycodone HCl	OxyContin
oxycodone HCl	OxyIR
oxycodone HCl	Roxicodone
oxycodone HCl	Roxicodone IntensoI
oxycodone HCl	RoxyBond
oxycodone HCl	oxycodone
oxycodone HCl/acetaminophen	ALCET
oxycodone HCl/acetaminophen	Endocet
oxycodone HCl/acetaminophen	Magnacet
oxycodone HCl/acetaminophen	Nalocet
oxycodone HCl/acetaminophen	Percocet
oxycodone HCl/acetaminophen	Primalev
oxycodone HCl/acetaminophen	Primlev
oxycodone HCl/acetaminophen	Prolate
oxycodone HCl/acetaminophen	Roxicet
oxycodone HCl/acetaminophen	Tylox
oxycodone HCl/acetaminophen	Xartemis XR
oxycodone HCl/acetaminophen	Xolox
oxycodone HCl/acetaminophen	oxycodone-acetaminophen
oxycodone HCl/aspirin	Endodan
oxycodone HCl/aspirin	Percodan
oxycodone HCl/aspirin	oxycodone-aspirin
oxycodone HCl/oxycodone terephthalate/aspirin	oxycodone HCl-oxycodone-ASA
oxycodone myristate	Xtampza ER
oxymorphone HCl	Numorphan
oxymorphone HCl	Opana
oxymorphone HCl	Opana ER
oxymorphone HCl	oxymorphone
pentazocine HCl/acetaminophen	Talacen
pentazocine HCl/acetaminophen	pentazocine-acetaminophen
pentazocine HCl/naloxone HCl	Talwin NX
pentazocine HCl/naloxone HCl	pentazocine-naloxone
pentazocine lactate	Talwin
propoxyphene HCl	Darvon
propoxyphene HCl	propoxyphene
propoxyphene HCl/acetaminophen	propoxyphene-acetaminophen
propoxyphene napsylate	Darvon-N

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

<b>Generic Name</b>	<b>Brand Name</b>
propoxyphene napsylate/acetaminophen	Balacet 325
propoxyphene napsylate/acetaminophen	Darvocet A500
propoxyphene napsylate/acetaminophen	Darvocet-N 100
propoxyphene napsylate/acetaminophen	Darvocet-N 50
propoxyphene napsylate/acetaminophen	Propoxacet-N 100
propoxyphene napsylate/acetaminophen	propoxyphene N-acetaminophen
sufentanil citrate	Dsuvia
sufentanil citrate/bupivacaine HCl/0.9 % sodium chloride/PF	sufentanil-bupivacain-NaCl(PF)
tapentadol HCl	Nucynta
tapentadol HCl	Nucynta ER
tramadol HCl	ConZip
tramadol HCl	Qdolo
tramadol HCl	Rybix ODT
tramadol HCl	Ryzolt
tramadol HCl	Ultram
tramadol HCl	Ultram ER
tramadol HCl	tramadol
tramadol HCl/acetaminophen	Ultracet
tramadol HCl/acetaminophen	tramadol-acetaminophen
tramadol HCl/celecoxib	Seglentis
tramadol HCl/dietary supplement,misc. cb.11	Theratramadol-60
tramadol HCl/dietary supplement,misc. cb.11	Theratramadol-90
<b>Statin Use</b>	
amlodipine besylate/atorvastatin calcium	Caduet
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
atorvastatin calcium	Lipitor
atorvastatin calcium	atorvastatin
ezetimibe/atorvastatin calcium	Liptruzet
ezetimibe/rosuvastatin calcium	Roszet
ezetimibe/rosuvastatin calcium	ezetimibe-rosuvastatin
ezetimibe/simvastatin	Vytorin 10-10
ezetimibe/simvastatin	Vytorin 10-20
ezetimibe/simvastatin	Vytorin 10-40
ezetimibe/simvastatin	Vytorin 10-80
ezetimibe/simvastatin	ezetimibe-simvastatin
fluvastatin sodium	Lescol
fluvastatin sodium	Lescol XL
fluvastatin sodium	fluvastatin
lovastatin	Altopen

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

<b>Generic Name</b>	<b>Brand Name</b>
lovastatin	Mevacor
lovastatin	lovastatin
niacin/lovastatin	Advicor
niacin/simvastatin	Simcor
pitavastatin calcium	Livalo
pitavastatin magnesium	Zypitamag
pravastatin sodium	Pravachol
pravastatin sodium	pravastatin
rosuvastatin calcium	Crestor
rosuvastatin calcium	Ezallor Sprinkle
rosuvastatin calcium	rosuvastatin
simvastatin	FloLipid
simvastatin	Zocor
simvastatin	simvastatin
sitagliptin phosphate/simvastatin	Juvisync
<b>Antiarrhythmic Use</b>	
adenosine	Adenocard
adenosine	adenosine
adenosine in 0.9 % sodium chloride	adenosine in 0.9 % sod chlor
amiodarone HCl	Cordarone
amiodarone HCl	Pacerone
amiodarone HCl	amiodarone
amiodarone HCl/dextrose 5 % in water	amiodarone in dextrose 5 %
amiodarone in dextrose, iso-osmotic	Nexterone
bretylum tosylate	bretylum tosylate
diltiazem HCl	diltiazem HCl
disopyramide phosphate	Norpace
disopyramide phosphate	Norpace CR
disopyramide phosphate	disopyramide phosphate
dofetilide	Tikosyn
dofetilide	dofetilide
dronedarone HCl	Multaq
esmolol HCl	Brevibloc
esmolol HCl	esmolol
esmolol HCl in sodium chloride, iso-osmotic	Brevibloc in NaCl (iso-osm)
esmolol HCl in sodium chloride, iso-osmotic	esmolol in NaCl (iso-osm)
esmolol HCl in sterile water	esmolol in sterile water
flecainide acetate	Tambocor
flecainide acetate	flecainide
ibutilide fumarate	Corvert
ibutilide fumarate	ibutilide fumarate
lidocaine HCl in dextrose 5% in water/PF	lidocaine in 5 % dextrose (PF)

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

Generic Name	Brand Name
lidocaine HCl in sodium chloride, iso-osmotic/PF	lidocaine in NaCl,iso-osmo(PF)
lidocaine HCl/PF	Xylocaine (Cardiac) (PF)
lidocaine HCl/PF	lidocaine (PF)
mexiletine HCl	Mexitol
mexiletine HCl	mexiletine
phenytoin sodium	phenytoin sodium
procainamide HCl	procainamide
propafenone HCl	Rythmol
propafenone HCl	Rythmol SR
propafenone HCl	propafenone
quinidine gluconate	quinidine gluconate
quinidine sulfate	Quinidex Extentabs
quinidine sulfate	quinidine sulfate
sotalol HCl	Betapace
sotalol HCl	Betapace AF
sotalol HCl	Sorine
sotalol HCl	Sotalol AF
sotalol HCl	Sotylize
sotalol HCl	sotalol
verapamil HCl	Calan
verapamil HCl	verapamil
<b>Antidiabetic Use</b>	
acarbose	Precose
acarbose	acarbose
albiglutide	Tanzeum
alogliptin benzoate	Nesina
alogliptin benzoate	alogliptin
alogliptin benzoate/metformin HCl	Kazano
alogliptin benzoate/metformin HCl	alogliptin-metformin
alogliptin benzoate/pioglitazone HCl	Oseni
alogliptin benzoate/pioglitazone HCl	alogliptin-pioglitazone
bromocriptine mesylate	Cycloset
bromocriptine mesylate	Parlodel
bromocriptine mesylate	bromocriptine
canagliflozin	Invokana
canagliflozin/metformin HCl	Invokamet
canagliflozin/metformin HCl	Invokamet XR
chlorpropamide	chlorpropamide
dapagliflozin propanediol	Farxiga
dapagliflozin propanediol/metformin HCl	Xigduo XR
dapagliflozin propanediol/saxagliptin HCl	Qtern

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

<b>Generic Name</b>	<b>Brand Name</b>
diluent,insulin aspart combination no.1	Diluting Medium for Novolog
dulaglutide	Trulicity
empagliflozin	Jardiance
empagliflozin/linagliptin	Glyxambi
empagliflozin/linagliptin/metformin HCl	Trijardy XR
empagliflozin/metformin HCl	Synjardy
empagliflozin/metformin HCl	Synjardy XR
ertugliflozin pidolate	Steglatro
ertugliflozin pidolate/metformin HCl	Segluromet
ertugliflozin pidolate/sitagliptin phosphate	Steglujan
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
glimepiride	Amaryl
glimepiride	glimepiride
glipizide/metformin HCl	Metaglip
glipizide/metformin HCl	glipizide-metformin
glyburide	Diabeta
glyburide	glyburide
glyburide,micronized	Glynase
glyburide,micronized	glyburide micronized
glyburide/metformin HCl	Glucovance
glyburide/metformin HCl	glyburide-metformin
insulin NPH human isophane	Humulin N NPH Insulin KwikPen
insulin NPH human isophane	Humulin N NPH U-100 Insulin
insulin NPH human isophane	Humulin N Pen
insulin NPH human isophane	Novolin N Flexpen
insulin NPH human isophane	Novolin N InnoLet
insulin NPH human isophane	Novolin N NPH U-100 Insulin
insulin NPH human isophane	Novolin N PenFill
insulin NPH human isophane/insulin regular, human	Humulin 50/50
insulin NPH human isophane/insulin regular, human	Humulin 70/30 Insulin Pen
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 Insulin
insulin NPH human isophane/insulin regular, human	Humulin 70/30 U-100 KwikPen
insulin NPH human isophane/insulin regular, human	Novolin 70-30 FlexPen U-100
insulin NPH human isophane/insulin regular, human	Novolin 70/30 InnoLet Insulin

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

Generic Name	Brand Name
insulin NPH human isophane/insulin regular, human	Novolin 70/30 PenFill
insulin NPH human isophane/insulin regular, human	Novolin 70/30 U-100 Insulin
insulin aspart	Novolog Flexpen U-100 Insulin
insulin aspart	Novolog PenFill U-100 Insulin
insulin aspart	Novolog U-100 Insulin aspart
insulin aspart	insulin aspart U-100
insulin aspart (niacinamide)	Fiasp FlexTouch U-100 Insulin
insulin aspart (niacinamide)	Fiasp Penfill U-100 Insulin
insulin aspart (niacinamide)	Fiasp U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30 U-100 Insulin
insulin aspart protamine human/insulin aspart	Novolog Mix 70-30FlexPen U-100
insulin aspart protamine human/insulin aspart	insulin asp prt-insulin aspart
insulin degludec	Tresiba FlexTouch U-100
insulin degludec	Tresiba FlexTouch U-200
insulin degludec	Tresiba U-100 Insulin
insulin degludec/liraglutide	Xultophy 100/3.6
insulin detemir	Levemir FlexTouch U-100 Insulin
insulin detemir	Levemir Flexpen
insulin detemir	Levemir U-100 Insulin
insulin glargine,human recombinant analog	Basaglar KwikPen U-100 Insulin
insulin glargine,human recombinant analog	Lantus Solostar U-100 Insulin
insulin glargine,human recombinant analog	Lantus U-100 Insulin
insulin glargine,human recombinant analog	Semglee Pen U-100 Insulin
insulin glargine,human recombinant analog	Semglee U-100 Insulin
insulin glargine,human recombinant analog	Toujeo Max U-300 SoloStar
insulin glargine,human recombinant analog	Toujeo SoloStar U-300 Insulin
insulin glargine,human recombinant analog/lixisenatide	Soliqua 100/33
insulin glulisine	Apidra SoloStar U-100 Insulin
insulin glulisine	Apidra U-100 Insulin
insulin lispro	Admelog SoloStar U-100 Insulin
insulin lispro	Admelog U-100 Insulin lispro
insulin lispro	Humalog Junior KwikPen U-100
insulin lispro	Humalog KwikPen Insulin
insulin lispro	Humalog Pen
insulin lispro	Humalog U-100 Insulin
insulin lispro	insulin lispro

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

<b>Generic Name</b>	<b>Brand Name</b>
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 Insuln U-100
insulin lispro protamine and insulin lispro	Humalog Mix 50-50 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25 KwikPen
insulin lispro protamine and insulin lispro	Humalog Mix 75-25(U-100)Insuln
insulin lispro protamine and insulin lispro	insulin lispro protamin-lispro
insulin lispro-aabc	Lyumjev KwikPen U-100 Insulin
insulin lispro-aabc	Lyumjev KwikPen U-200 Insulin
insulin lispro-aabc	Lyumjev U-100 Insulin
insulin regular, human	Afrezza
insulin regular, human	Humulin R Regular U-100 Insuln
insulin regular, human	Humulin R U-500 (Conc) Insulin
insulin regular, human	Humulin R U-500 (Conc) Kwikpen
insulin regular, human	Novolin R Flexpen
insulin regular, human	Novolin R InnoLet
insulin regular, human	Novolin R PenFill
insulin regular, human	Novolin R Regular U-100 Insuln
insulin regular, human in 0.9 % sodium chloride	Myxredlin
linagliptin	Tradjenta
linagliptin/metformin HCl	Jentaduetto
linagliptin/metformin HCl	Jentaduetto XR
liraglutide	Saxenda
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
lixisenatide	Adlyxin
metformin HCl	Fortamet
metformin HCl	Glucophage
metformin HCl	Glucophage XR
metformin HCl	Glumetza
metformin HCl	Riomet
metformin HCl	Riomet ER
metformin HCl	metformin
miglitol	Glyset
miglitol	miglitol
nateglinide	Starlix
nateglinide	nateglinide
pioglitazone HCl	Actos
pioglitazone HCl	pioglitazone
pioglitazone HCl/glimepiride	DUETACT
pioglitazone HCl/glimepiride	pioglitazone-glimepiride
pioglitazone HCl/metformin HCl	Actoplus MET
pioglitazone HCl/metformin HCl	Actoplus Met XR

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

<b>Generic Name</b>	<b>Brand Name</b>
pioglitazone HCl/metformin HCl	pioglitazone-metformin
pramlintide acetate	Symlin
pramlintide acetate	SymlinPen 120
pramlintide acetate	SymlinPen 60
repaglinide	Prandin
repaglinide	repaglinide
repaglinide/metformin HCl	Prandimet
repaglinide/metformin HCl	repaglinide-metformin
rosiglitazone maleate	Avandia
rosiglitazone maleate/metformin HCl	Avandamet
saxagliptin HCl	Onglyza
saxagliptin HCl/metformin HCl	Kombiglyze XR
semaglutide	Ozempic
semaglutide	Rybelsus
semaglutide	Wegovy
sitagliptin phosphate	Januvia
sitagliptin phosphate/metformin HCl	Janumet
sitagliptin phosphate/metformin HCl	Janumet XR
tolazamide	tolazamide
tolbutamide	tolbutamide

**Calcium Channel Blocker Use**

aliskiren hemifumarate/amlodipine besylate	Tekamlo
aliskiren hemifumarate/amlodipine/hydrochlorothiazide	Amturnide
amlodipine benzoate	Katerzia
amlodipine besylate	Norliqva
amlodipine besylate	Norvasc
amlodipine besylate	amlodipine
amlodipine besylate	amlodipine besylate (bulk)
amlodipine besylate/atorvastatin calcium	Caduet
amlodipine besylate/atorvastatin calcium	amlodipine-atorvastatin
amlodipine besylate/benazepril HCl	Lotrel
amlodipine besylate/benazepril HCl	amlodipine-benazepril
amlodipine besylate/celecoxib	Consensi
amlodipine besylate/olmesartan medoxomil	Azor
amlodipine besylate/olmesartan medoxomil	amlodipine-olmesartan
amlodipine besylate/valsartan	Exforge
amlodipine besylate/valsartan	amlodipine-valsartan



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

Generic Name	Brand Name
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
clevidipine butyrate	Cleviprex
diltiazem HCl	Cardizem
diltiazem HCl	Cardizem CD
diltiazem HCl	Cardizem LA
diltiazem HCl	Cardizem SR
diltiazem HCl	Cartia XT
diltiazem HCl	DILT-CD
diltiazem HCl	DILT-XR
diltiazem HCl	Dilacor XR
diltiazem HCl	Diltia XT
diltiazem HCl	Diltzac ER
diltiazem HCl	Matzim LA
diltiazem HCl	Taztia XT
diltiazem HCl	Tiadyt ER
diltiazem HCl	Tiazac
diltiazem HCl	diltiazem HCl
diltiazem HCl	diltiazem HCl (bulk)
diltiazem HCl in 0.9 % sodium chloride	diltiazem HCl in 0.9% NaCl
diltiazem HCl/dextrose 5 % in water	diltiazem in dextrose 5 %
enalapril maleate/felodipine	Lexxel
felodipine	Plendil
felodipine	felodipine
isradipine	DynaCirc
isradipine	DynaCirc CR
isradipine	isradipine
levamlodipine maleate	Conjupri
nicardipine HCl	Cardene IV
nicardipine HCl	Cardene SR
nicardipine HCl	nicardipine
nicardipine HCl in 0.9 % sodium chloride	nicardipine in 0.9 % sod chlor
nicardipine in 5 % dextrose in water	nicardipine in 5 % dextrose
nicardipine in dextrose, iso-osmotic	Cardene IV in dextrose
nicardipine in sodium chloride, iso-osmotic	Cardene IV in sodium chloride
nicardipine in sodium chloride, iso-osmotic	nicardipine in NaCl (iso-os)
nifedipine	Adalat CC
nifedipine	Afeditab CR
nifedipine	Nifediac CC
nifedipine	Nifedical XL

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

<b>Generic Name</b>	<b>Brand Name</b>
nifedipine	Procardia
nifedipine	Procardia XL
nifedipine	nifedipine
nifedipine	nifedipine (bulk)
nifedipine, micronized	nifedipine, micronized (bulk)
nimodipine	Nymalize
nimodipine	nimodipine
nimodipine	nimodipine (bulk)
nisoldipine	Sular
nisoldipine	nisoldipine
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazid
perindopril arginine/amlodipine besylate	Prestalia
telmisartan/amlodipine besylate	Twynsta
telmisartan/amlodipine besylate	telmisartan-amlodipine
trandolapril/verapamil HCl	Tarka
trandolapril/verapamil HCl	trandolapril-verapamil
verapamil HCl	Calan
verapamil HCl	Calan SR
verapamil HCl	Covera-HS
verapamil HCl	Isoptin SR
verapamil HCl	Verelan
verapamil HCl	Verelan PM
verapamil HCl	verapamil
verapamil HCl	verapamil (bulk)
<b>Diuretic Use</b>	
acetazolamide	Diamox Sequels
acetazolamide	acetazolamide
acetazolamide sodium	acetazolamide sodium
aliskiren hemifumarate/hydrochlorothiazide	Tekturna HCT
amiloride HCl	Midamor
amiloride HCl	amiloride
amiloride HCl/hydrochlorothiazide	amiloride-hydrochlorothiazide
amlodipine besylate/valsartan/hydrochlorothiazide	Exforge HCT
amlodipine besylate/valsartan/hydrochlorothiazide	amlodipine-valsartan-hcthiazid
ammonium chloride	ammonium chloride
atenolol/chlorthalidone	Tenoretic 100

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

<b>Generic Name</b>	<b>Brand Name</b>
atenolol/chlorthalidone	Tenoretic 50
atenolol/chlorthalidone	atenolol-chlorthalidone
azilsartan medoxomil/chlorthalidone	Edarbyclor
benazepril HCl/hydrochlorothiazide	Lotensin HCT
benazepril HCl/hydrochlorothiazide	benazepril-hydrochlorothiazide
bisoprolol fumarate/hydrochlorothiazide	Ziac
bisoprolol fumarate/hydrochlorothiazide	bisoprolol-hydrochlorothiazide
bumetanide	bumetanide
candesartan cilexetil/hydrochlorothiazide	Atacand HCT
candesartan cilexetil/hydrochlorothiazide	candesartan-hydrochlorothiazid
captopril/hydrochlorothiazide	captopril-hydrochlorothiazide
chlorothiazide	Diuril
chlorothiazide	chlorothiazide
chlorothiazide sodium	Diuril IV
chlorothiazide sodium	chlorothiazide sodium
chlorthalidone	Thalitone
chlorthalidone	chlorthalidone
clonidine HCl/chlorthalidone	Clorpres
conivaptan HCl	Vaprisol
conivaptan HCl/dextrose 5 % in water	Vaprisol in 5 % dextrose
enalapril maleate/hydrochlorothiazide	Vaseretic
enalapril maleate/hydrochlorothiazide	enalapril-hydrochlorothiazide
eplerenone	Inspra
eplerenone	eplerenone
eprosartan mesylate/hydrochlorothiazide	Teveten HCT
ethacrynate sodium	Sodium Edecrin
ethacrynate sodium	ethacrynate sodium
ethacrynic acid	Edecrin
ethacrynic acid	ethacrynic acid
fosinopril sodium/hydrochlorothiazide	fosinopril-hydrochlorothiazide
furosemide	Lasix
furosemide	furosemide
furosemide in 0.9 % sodium chloride	furosemide in 0.9 % NaCl
furosemide/dextrose 5 % in water	furosemide in dextrose 5 %
glycerin	Introl
hydralazine HCl/hydrochlorothiazide	Hydra-Zide
hydrochlorothiazide	Microzide
hydrochlorothiazide	hydrochlorothiazide
indapamide	indapamide
irbesartan/hydrochlorothiazide	Avalide
irbesartan/hydrochlorothiazide	irbesartan-hydrochlorothiazide
lisinopril/hydrochlorothiazide	Prinzide

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

<b>Generic Name</b>	<b>Brand Name</b>
lisinopril/hydrochlorothiazide	Zestoretic
lisinopril/hydrochlorothiazide	lisinopril-hydrochlorothiazide
losartan potassium/hydrochlorothiazide	Hyzaar
losartan potassium/hydrochlorothiazide	losartan-hydrochlorothiazide
mannitol	Osmitrol 10 %
mannitol	Osmitrol 15 %
mannitol	Osmitrol 20 %
mannitol	Osmitrol 5 %
mannitol	mannitol 10 %
mannitol	mannitol 15 %
mannitol	mannitol 20 %
mannitol	mannitol 25 %
mannitol	mannitol 5 %
mannitol/sorbitol	Lollipop Base
methazolamide	Neptazane
methazolamide	methazolamide
methyclothiazide	Enduron
methyclothiazide	methyclothiazide
methyldopa/hydrochlorothiazide	methyldopa-hydrochlorothiazide
metolazone	Zaroxolyn
metolazone	metolazone
metoprolol succinate/hydrochlorothiazide	Dutoprol
metoprolol succinate/hydrochlorothiazide	metoprolol su-hydrochlorothiaz
metoprolol tartrate/hydrochlorothiazide	Lopressor HCT
metoprolol tartrate/hydrochlorothiazide	metoprolol ta-hydrochlorothiaz
moexipril HCl/hydrochlorothiazide	Uniretic
moexipril HCl/hydrochlorothiazide	moexipril-hydrochlorothiazide
nadolol/bendroflumethiazide	Corzide
nadolol/bendroflumethiazide	nadolol-bendroflumethiazide
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	Tribenzor
olmesartan medoxomil/amlodipine besylate/hydrochlorothiazide	olmesartan-amlodipin-hcthiazi
olmesartan medoxomil/hydrochlorothiazide	Benicar HCT
olmesartan medoxomil/hydrochlorothiazide	olmesartan-hydrochlorothiazide
pamabrom	Diuretic Softgels
pamabrom	Diurex Max
potassium sulfate/corn/buchu/couch grass/hydrangea	Natural Herbal Diuretic
propranolol HCl/hydrochlorothiazide	propranolol-hydrochlorothiazid
quinapril HCl/hydrochlorothiazide	Accuretic
quinapril HCl/hydrochlorothiazide	Quinaretic

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

<b>Generic Name</b>	<b>Brand Name</b>
quinapril HCl/hydrochlorothiazide	quinapril-hydrochlorothiazide
spironolactone	Aldactone
spironolactone	CaroSpir
spironolactone	spironolactone
spironolactone/hydrochlorothiazide	Aldactazide
spironolactone/hydrochlorothiazide	spironolacton-hydrochlorothiaz
telmisartan/hydrochlorothiazide	Micardis HCT
telmisartan/hydrochlorothiazide	telmisartan-hydrochlorothiazid
tolvaptan	Samsca
tolvaptan	tolvaptan
toremide	Demadex
toremide	Soaanz
toremide	toremide
triamterene	Dyrenium
triamterene	triamterene
triamterene/hydrochlorothiazide	Dyazide
triamterene/hydrochlorothiazide	Maxzide
triamterene/hydrochlorothiazide	Maxzide-25mg
triamterene/hydrochlorothiazide	triamterene-hydrochlorothiazid
urea	Ure-Na
valsartan/hydrochlorothiazide	Diovan HCT
valsartan/hydrochlorothiazide	valsartan-hydrochlorothiazide
<b>Antidepressant Use</b>	
amitriptyline HCl	amitriptyline
amitriptyline HCl/chlordiazepoxide	Limbitrol
amitriptyline HCl/chlordiazepoxide	amitriptyline-chlordiazepoxide
amoxapine	amoxapine
brexanolone	Zulresso
bupropion HBr	Aplenzin
bupropion HCl	Budeprion SR
bupropion HCl	Budeprion XL
bupropion HCl	Forfivo XL
bupropion HCl	Wellbutrin
bupropion HCl	Wellbutrin SR
bupropion HCl	Wellbutrin XL
bupropion HCl	bupropion HCl
bupropion HCl/dietary supplement combination no.15	Appbutamone-D
bupropion HCl/dietary supplement combination no.16	Appbutamone
citalopram hydrobromide	Celexa
citalopram hydrobromide	citalopram

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

<b>Generic Name</b>	<b>Brand Name</b>
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
doxepin HCl	Silenor
doxepin HCl	doxepin
duloxetine HCl	Cymbalta
duloxetine HCl	Drizalma Sprinkle
duloxetine HCl	Irenka
duloxetine HCl	duloxetine
escitalopram oxalate	Lexapro
escitalopram oxalate	escitalopram oxalate
esketamine HCl	Spravato
fluoxetine HCl	Prozac
fluoxetine HCl	Prozac Weekly
fluoxetine HCl	Rapiflux
fluoxetine HCl	Sarafem
fluoxetine HCl	Selfemra
fluoxetine HCl	fluoxetine
fluoxetine HCl/dietary supplement no.17	Gaboxetine
fluoxetine HCl/dietary supplement no.8	Sentroxatine
fluvoxamine maleate	Luvox CR
fluvoxamine maleate	fluvoxamine
imipramine HCl	Tofranil
imipramine HCl	imipramine HCl
imipramine pamoate	Tofranil-PM
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

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

<b>Generic Name</b>	<b>Brand Name</b>
olanzapine/fluoxetine HCl	Symbyax
olanzapine/fluoxetine HCl	olanzapine-fluoxetine
paroxetine HCl	Paxil
paroxetine HCl	Paxil CR
paroxetine HCl	paroxetine HCl
paroxetine mesylate	Brisdelle
paroxetine mesylate	Pexeva
paroxetine mesylate	paroxetine mesylate(menop.sym)
perphenazine/amitriptyline HCl	Duo-Vil 2-10
perphenazine/amitriptyline HCl	Duo-Vil 2-25
perphenazine/amitriptyline HCl	perphenazine-amitriptyline
phenelzine sulfate	Nardil
phenelzine sulfate	phenelzine
protriptyline HCl	Vivactil
protriptyline HCl	protriptyline
selegiline	Emsam
sertraline HCl	Zoloft
sertraline HCl	sertraline
tranylcypromine sulfate	Parnate
tranylcypromine sulfate	tranylcypromine
trazodone HCl	Desyrel
trazodone HCl	Oleptro ER
trazodone HCl	trazodone
trazodone HCl/dietary supplement no.8	Trazamine
trimipramine maleate	Surmontil
trimipramine maleate	trimipramine
venlafaxine HCl	Effexor
venlafaxine HCl	Effexor XR
venlafaxine HCl	venlafaxine
vilazodone HCl	Viiibryd
vortioxetine hydrobromide	Brintellix
vortioxetine hydrobromide	Trintellix
<b>Gastric Acid Suppressant Use</b>	
LANSOPRAZOLE	FIRST-Lansoprazole
OMEPRAZOLE	FIRST-Omeprazole
OMEPRAZOLE	Omeprazole+SyrSpend SF Alka
RANITIDINE HCL	Deprizine
aspirin/omeprazole	Yosprala
aspirin/omeprazole	aspirin-omeprazole
cimetidine	Acid Reducer (cimetidine)
cimetidine	Acid Relief (cimetidine)
cimetidine	Heartburn 200

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

<b>Generic Name</b>	<b>Brand Name</b>
cimetidine	Heartburn Relief (cimetidine)
cimetidine	Tagamet
cimetidine	Tagamet HB
cimetidine	cimetidine
cimetidine HCl	cimetidine HCl
cimetidine HCl in 0.9 % sodium chloride	cimetidine in 0.9 % NaCl
dexlansoprazole	Dexilant
dexlansoprazole	Kapidex
dexlansoprazole	dexlansoprazole
esomeprazole magnesium	Heartburn Treatment
esomeprazole magnesium	Nexium
esomeprazole magnesium	Nexium 24HR
esomeprazole magnesium	Nexium Packet
esomeprazole magnesium	esomeprazole magnesium
esomeprazole magnesium/glycerin	Esomep-EZS
esomeprazole sodium	Nexium IV
esomeprazole sodium	esomeprazole sodium
esomeprazole strontium	esomeprazole strontium
famotidine	Acid Controller
famotidine	Acid Reducer (famotidine)
famotidine	Acid-Pep
famotidine	Heartburn Prevention
famotidine	Heartburn Relief (famotidine)
famotidine	Pepcid
famotidine	Pepcid AC
famotidine	Pepcid AC Maximum Strength
famotidine	Zantac-360 (famotidine)
famotidine	famotidine
famotidine in 0.9 % sodium chloride	famotidine in 0.9 % NaCl
famotidine in sodium chloride, iso-osmotic/PF	famotidine (PF)-NaCl (iso-os)
famotidine/PF	famotidine (PF)
famotidine/calcium carbonate/magnesium hydroxide	Acid Controller Complete
famotidine/calcium carbonate/magnesium hydroxide	Acid Reducer Complete (famot)
famotidine/calcium carbonate/magnesium hydroxide	Complete
famotidine/calcium carbonate/magnesium hydroxide	Dual Action Complete
famotidine/calcium carbonate/magnesium hydroxide	Duo Fusion



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

<b>Generic Name</b>	<b>Brand Name</b>
famotidine/calcium carbonate/magnesium hydroxide	Pepcid Complete
famotidine/calcium carbonate/magnesium hydroxide	Tums Dual Action (famotidine)
ibuprofen/famotidine	Duexis
ibuprofen/famotidine	ibuprofen-famotidine
lansoprazole	Heartburn Relief 24 Hour
lansoprazole	Heartburn Treatment 24 Hour
lansoprazole	Prevacid
lansoprazole	Prevacid 24Hr
lansoprazole	Prevacid IV
lansoprazole	Prevacid SoluTab
lansoprazole	lansoprazole
lansoprazole/amoxicillin trihydrate/clarithromycin	Prevpac
lansoprazole/amoxicillin trihydrate/clarithromycin	amoxicil-clarithromy-lansopraz
nizatidine	Axid
nizatidine	Axid AR
nizatidine	nizatidine
omeprazole	Prilosec
omeprazole	omeprazole
omeprazole magnesium	Acid Reducer (omeprazole)
omeprazole magnesium	Prilosec
omeprazole magnesium	Prilosec OTC
omeprazole magnesium	omeprazole magnesium
omeprazole magnesium/amoxicillin trihydrate/rifabutin	Talicia
omeprazole/clarithromycin/amoxicillin trihydrate	Omeclamox-Pak
omeprazole/sodium bicarbonate	OmePPi
omeprazole/sodium bicarbonate	Zegerid
omeprazole/sodium bicarbonate	Zegerid OTC
omeprazole/sodium bicarbonate	omeprazole-sodium bicarbonate
pantoprazole sodium	Protonix
pantoprazole sodium	pantoprazole
rabeprazole sodium	AcipHex
rabeprazole sodium	AcipHex Sprinkle
rabeprazole sodium	rabeprazole
ranitidine HCl	Acid Control (ranitidine)
ranitidine HCl	Acid Reducer (ranitidine)
ranitidine HCl	Heartburn Relief (ranitidine)

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

<b>Generic Name</b>	<b>Brand Name</b>
ranitidine HCl	Taladine
ranitidine HCl	Wal-Zan 150
ranitidine HCl	Wal-Zan 75
ranitidine HCl	Zantac
ranitidine HCl	Zantac 25 EFFERdose
ranitidine HCl	Zantac 75
ranitidine HCl	Zantac Maximum Strength
ranitidine HCl	ranitidine HCl
ranitidine HCl in 0.45 % sodium chloride	Zantac in 0.45 % sod. chloride
ranitidine HCl/dietary supplement no.17	Gabitidine
ranitidine HCl/dietary supplement no.8	Sentradine
<b>NSAID Use</b>	
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC400
Ibuprofen/Caffeine/Vitamins B1, B2, B6, & B12	IC800
NAPROXEN	Napro
NAPROXEN	Naproderm
amlodipine besylate/celecoxib	Consensi
bromfenac sodium	BromSite
bromfenac sodium	Bromday
bromfenac sodium	Bromday TwinPack
bromfenac sodium	Prolensa
bromfenac sodium	XIBROM
bromfenac sodium	bromfenac
bromfenac sodium	bromfenac sodium (bulk)
bupivacaine/ketorolac/ketamine	bupivacaine-ketorolac-ketamine
bupivacaine/meloxicam	Zynrelef
celecoxib	Celebrex
celecoxib	Elyxyb
celecoxib	celecoxib
celecoxib	celecoxib (bulk)
celecoxib/capsaicin/menthol	CapXib
celecoxib/capsaicin/methyl salicylate/menthol	NuDroxiPAK
celecoxib/lidocaine/menthol	LidoXib
chlorpheniramine maleate/phenylephrine HCl/ibuprofen	Advil Allergy-Congestion Rlf
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Allergy Sinus
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Advil Multi-Symptom Cold

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

Generic Name	Brand Name
chlorpheniramine maleate/pseudoephedrine HCl/ibuprofen	Children's Advil Allergy Sinus
dexamethasone sod ph/moxifloxacin HCl/ketorolac/sod chlor/PF	dexamet-moxifl-ketoro-NaCl(PF)
diclofenac epolamine	Flector
diclofenac epolamine	Licart
diclofenac epolamine	diclofenac epolamine
diclofenac potassium	Cambia
diclofenac potassium	Cataflam
diclofenac potassium	Lofena
diclofenac potassium	Zipsor
diclofenac potassium	diclofenac potassium
diclofenac sodium	Arthritis Pain (diclofenac)
diclofenac sodium	Diclo Gel
diclofenac sodium	Diclofono
diclofenac sodium	Dicloprep-100
diclofenac sodium	Diclozor
diclofenac sodium	Dyloject
diclofenac sodium	Klofensaid II
diclofenac sodium	Pennsaid
diclofenac sodium	Solaraze
diclofenac sodium	VennGel One
diclofenac sodium	Voltaren
diclofenac sodium	Voltaren Arthritis Pain
diclofenac sodium	Voltaren-XR
diclofenac sodium	Vopac MDS
diclofenac sodium	diclofenac sodium
diclofenac sodium	diclofenac sodium (bulk)
diclofenac sodium, micronized	diclofenac sod, micro (bulk)
diclofenac sodium/benzalkonium chloride	DS Prep Pak
diclofenac sodium/capsaicin	CapsFenac Pak
diclofenac sodium/capsaicin	Dicloheal-60
diclofenac sodium/capsaicin	Diclopak
diclofenac sodium/capsaicin	Flexipak
diclofenac sodium/capsaicin	Inavix
diclofenac sodium/capsaicin	NuDiclo SoluPAK
diclofenac sodium/capsaicin	NuDiclo TabPAK
diclofenac sodium/capsaicin	Pennsaicin
diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-50
diclofenac sodium/capsaicin/methyl salicylate/menthol	NuDroxiPAK DSDR-75

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

<b>Generic Name</b>	<b>Brand Name</b>
diclofenac sodium/capsicum oleoresin	Capsinac
diclofenac sodium/capsicum oleoresin	DermaSilkRx DicloPak
diclofenac sodium/capsicum oleoresin	DermacinRx Lexitral
diclofenac sodium/capsicum oleoresin	Diclofex DC
diclofenac sodium/capsicum oleoresin	Diclosaicin
diclofenac sodium/capsicum oleoresin	Diclotral
diclofenac sodium/capsicum oleoresin	Iclofenac CP
diclofenac sodium/capsicum oleoresin	Inflamacin
diclofenac sodium/capsicum oleoresin	Kapzin DC
diclofenac sodium/capsicum oleoresin	Lexitral PharmaPak II
diclofenac sodium/capsicum oleoresin	PrevidolRx Plus Analgesic Pak
diclofenac sodium/capsicum oleoresin	Sure Result DSS Premium Pack
diclofenac sodium/capsicum oleoresin	Xelitral
diclofenac sodium/capsicum oleoresin	Xenaflamm
diclofenac sodium/capsicum oleoresin	Ziclopro
diclofenac sodium/hyaluronate sodium/niacinamide	Roaoxia
diclofenac sodium/hyaluronate sodium/niacinamide	diclofenac-hyaluronate-niacin
diclofenac sodium/kinesiology tape	Clofenax
diclofenac sodium/kinesiology tape	Diclo Gel-Xrylix Sheet
diclofenac sodium/kinesiology tape	Lexixryl
diclofenac sodium/kinesiology tape	Profinac
diclofenac sodium/kinesiology tape	Xrylix (diclofenac-kines tape)
diclofenac sodium/kinesiology tape	Xrylix II
diclofenac sodium/lidocaine	Lidovix
diclofenac sodium/lidocaine HCl/kinesiology tape	TriXylitral
diclofenac sodium/lidocaine/methyl salicylate/camphor	Diclovix
diclofenac sodium/menthol	DiThol
diclofenac sodium/menthol/camphor	Diclotrex
diclofenac sodium/menthol/camphor	Diclotrex II
diclofenac sodium/menthol/camphor	Inflatherm(diclofenac-menthol)
diclofenac sodium/menthol/kinesiology tape	DiMentho
diclofenac sodium/menthol/kinesiology tape	Diclovix M
diclofenac sodium/methyl salicylate/menthol	DicloPR
diclofenac sodium/methyl salicylate/menthol	Varophen (diclofenac)

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

Generic Name	Brand Name
diclofenac sodium/methyl salicylate/menthol/camphor	Inflamma-K
diclofenac sodium/misoprostol	Arthrotec 50
diclofenac sodium/misoprostol	Arthrotec 75
diclofenac sodium/misoprostol	diclofenac-misoprostol
diclofenac sodium/silicone, adhesive	Solaravix
diclofenac sodium/trolamine salicylate	Inflatherm (diclofenac-trolam)
diclofenac submicronized	Zorvolex
diclofenac submicronized	diclofenac submicronized
etodolac	Lodine
etodolac	Lodine XL
etodolac	etodolac
etodolac	etodolac (bulk)
etodolac/capsaicin/methyl salicylate/menthol	NuDroxiPAK E-400
fenoprofen calcium	Fenortho
fenoprofen calcium	Nalfon
fenoprofen calcium	ProFeno
fenoprofen calcium	fenoprofen
fenoprofen calcium, dihydrate	fenoprofen calcium dihyd(bulk)
flurbiprofen	Ansaid
flurbiprofen	flurbiprofen
flurbiprofen	flurbiprofen (bulk)
flurbiprofen sodium	Ocufer
flurbiprofen sodium	flurbiprofen sodium
hydrocodone/ibuprofen	Ibudone
hydrocodone/ibuprofen	Reprexain
hydrocodone/ibuprofen	Vicoprofen
hydrocodone/ibuprofen	Xylon 10
hydrocodone/ibuprofen	hydrocodone-ibuprofen
ibuprofen	A-G Profen
ibuprofen	Addaprin
ibuprofen	Advanced Pain Relief
ibuprofen	Advil
ibuprofen	Advil Junior Strength
ibuprofen	Advil Liqui-Gel
ibuprofen	Advil Migraine
ibuprofen	Bupranol FP
ibuprofen	Caldolor
ibuprofen	Cap-Profen
ibuprofen	Child Ibuprofen
ibuprofen	Children's Advil

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

<b>Generic Name</b>	<b>Brand Name</b>
ibuprofen	Children's Ibu-Drops
ibuprofen	Children's Ibuprofen
ibuprofen	Children's Medi-Profen
ibuprofen	Children's Motrin
ibuprofen	Children's Motrin Jr Strength
ibuprofen	Children's Profen IB
ibuprofen	Childs Ibuprofen
ibuprofen	ElixSure IB Suspension
ibuprofen	I-Prin
ibuprofen	IBU
ibuprofen	IBU-200
ibuprofen	IBU-Tab
ibuprofen	Ibu-Drops
ibuprofen	Ibuprofen IB
ibuprofen	Ibuprofen Jr Strength
ibuprofen	Ibuprofen M
ibuprofen	Ibutab
ibuprofen	Infant's Advil
ibuprofen	Infant's Ibuprofen
ibuprofen	Infant's Medi-Profen
ibuprofen	Infant's Motrin
ibuprofen	Infants Ibu-Drops
ibuprofen	Infants ProfenIB
ibuprofen	Medi-Profen
ibuprofen	Menadol
ibuprofen	Motrin
ibuprofen	Motrin IB
ibuprofen	Motrin Junior Strength
ibuprofen	Motrin Migraine
ibuprofen	Nuprin
ibuprofen	Nuprin Menstrual Relief
ibuprofen	Profen IB
ibuprofen	Provil
ibuprofen	Tab-Profen
ibuprofen	Wal-Profen
ibuprofen	Yaprofen
ibuprofen	ibuprofen
ibuprofen	ibuprofen (bulk)
ibuprofen lysine/PF	NeoProfen (ibuprofen lysn)(PF)
ibuprofen lysine/PF	ibuprofen lysine (PF)
ibuprofen/acetaminophen	Advil Dual Action

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

Generic Name	Brand Name
ibuprofen/capsaicin/methyl salicylate/menthol	NuDroxiPAK I-800
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-60
ibuprofen/dietary supplement,misc. cb.11	Theraprofen-90
ibuprofen/diphenhydramine HCl	Advil PM Liqui-Gels
ibuprofen/diphenhydramine HCl	Ibuprofen PM
ibuprofen/diphenhydramine HCl	ibuprofen-diphenhydramine HCl
ibuprofen/diphenhydramine citrate	Advil PM
ibuprofen/diphenhydramine citrate	Ibuprofen PM
ibuprofen/diphenhydramine citrate	Motrin PM
ibuprofen/diphenhydramine citrate	ibuprofen-diphenhydramine cit
ibuprofen/famotidine	Duexis
ibuprofen/famotidine	ibuprofen-famotidine
ibuprofen/glycerin	Ibupak
ibuprofen/irritants counter-irritants combination no.2	Comfort Pac-Ibuprofen
ibuprofen/oxycodone HCl	Combunox
ibuprofen/oxycodone HCl	ibuprofen-oxycodone
ibuprofen/phenylephrine HCl	Advil Congestion Relief
ibuprofen/phenylephrine HCl	Advil Sinus Congestion-Pain
ibuprofen/phenylephrine HCl	Congestion Relief (ibuprof-PE)
ibuprofen/phenylephrine HCl	Sudafed PE Head Congestn-Pain
ibuprofen/pseudoephedrine HCl	Advil Cold and Sinus
ibuprofen/pseudoephedrine HCl	Advil Flu and Body Ache
ibuprofen/pseudoephedrine HCl	Children's Advil Cold
ibuprofen/pseudoephedrine HCl	Children's Dimetapp Cold,Fever
ibuprofen/pseudoephedrine HCl	Children's Ibuprofen Cold
ibuprofen/pseudoephedrine HCl	Children's Motrin Cold
ibuprofen/pseudoephedrine HCl	Cold and Sinus Pain Relief
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief
ibuprofen/pseudoephedrine HCl	Cold-Sinus Relief (ibuprofen)
ibuprofen/pseudoephedrine HCl	DayQuil Sinus Pressure/Pain
ibuprofen/pseudoephedrine HCl	Dristan Sinus
ibuprofen/pseudoephedrine HCl	Ibup Sinus
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold
ibuprofen/pseudoephedrine HCl	Ibuprofen Cold-Sinus(with PSE)
ibuprofen/pseudoephedrine HCl	Iprin Cold and Sinus
ibuprofen/pseudoephedrine HCl	Medi-Profen
ibuprofen/pseudoephedrine HCl	Motrin Cold
ibuprofen/pseudoephedrine HCl	Motrin Cold and Sinus
ibuprofen/pseudoephedrine HCl	Motrin IB Sinus
ibuprofen/pseudoephedrine HCl	Nuprin Cold Relief

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

<b>Generic Name</b>	<b>Brand Name</b>
ibuprofen/pseudoephedrine HCl	Nuprin Flu Relief
ibuprofen/pseudoephedrine HCl	Profen IB Cold And Sinus
ibuprofen/pseudoephedrine HCl	Vicks DayQuil (pseudoeph-ibup)
ibuprofen/pseudoephedrine HCl	Wal-Profen Cold-Sinus
ibuprofen/pseudoephedrine HCl	Wal-Profen D Cold and Sinus
ibuprofen/pseudoephedrine HCl	pseudoephedrine-ibuprofen
indomethacin	Indocin
indomethacin	Indocin SR
indomethacin	indomethacin
indomethacin	indomethacin (bulk)
indomethacin sodium	Indocin I.V.
indomethacin sodium	indomethacin sodium
indomethacin, submicronized	Tivorbex
indomethacin, submicronized	indomethacin submicronized
ketoprofen	Actron
ketoprofen	Frotek
ketoprofen	Orudis
ketoprofen	Orudis KT
ketoprofen	Oruvail
ketoprofen	ketoprofen
ketoprofen	ketoprofen (bulk)
ketoprofen, micronized	Frotek
ketoprofen, micronized	ketoprofen, micronized (bulk)
ketorolac tromethamine	Acular
ketorolac tromethamine	Acular LS
ketorolac tromethamine	Acular PF
ketorolac tromethamine	ReadySharp ketorolac
ketorolac tromethamine	Sprix
ketorolac tromethamine	Toradol
ketorolac tromethamine	ketorolac
ketorolac tromethamine	ketorolac (bulk)
ketorolac tromethamine/PF	Acuvail (PF)
ketorolac/norflurane and pentafluoropropane (HFC 245fa)	Toronova II SUIK
ketorolac/norflurane and pentafluoropropane (HFC 245fa)	Toronova SUIK
lansoprazole/naproxen	PREVACID NapraPAC
meclofenamate sodium	meclofenamate
mefenamic acid	Ponstel
mefenamic acid	mefenamic acid
mefenamic acid	mefenamic acid (bulk)
meloxicam	Anjeso



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

<b>Generic Name</b>	<b>Brand Name</b>
meloxicam	Mobic
meloxicam	Qmiiz ODT
meloxicam	meloxicam
meloxicam	meloxicam (bulk)
meloxicam, submicronized	Vivlodex
meloxicam, submicronized	meloxicam submicronized
meloxicam/irritants counter-irritants combination no.2	Comfort Pac-Meloxicam
nabumetone	Relafen
nabumetone	Relafen DS
nabumetone	nabumetone
nabumetone	nabumetone (bulk)
nabumetone, micronized	nabumetone, micronized (bulk)
nabumetone/capsaicin/methyl salicylate/menthol	NuDroxiPAK N-500
naproxen	EC-Naprosyn
naproxen	EC-Naproxen
naproxen	Naprosyn
naproxen	Romixen 500
naproxen	naproxen
naproxen	naproxen (bulk)
naproxen sodium	Aleve
naproxen sodium	All Day Pain Relief
naproxen sodium	All Day Relief
naproxen sodium	Anaprox
naproxen sodium	Anaprox DS
naproxen sodium	Flanax (naproxen)
naproxen sodium	Mediproxen
naproxen sodium	Midol (naproxen)
naproxen sodium	Naprelan
naproxen sodium	Naprelan CR
naproxen sodium	Naprelan CR Dose Card
naproxen sodium	Wal-Proxen
naproxen sodium	naproxen sodium
naproxen sodium	naproxen sodium (bulk)
naproxen sodium/diphenhydramine HCl	Aleve PM
naproxen sodium/diphenhydramine HCl	Naproxen PM
naproxen sodium/menthol	NaproPak Cool
naproxen sodium/pseudoephedrine HCl	Aleve Cold and Sinus
naproxen sodium/pseudoephedrine HCl	Aleve Sinus and Headache
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Cold
naproxen sodium/pseudoephedrine HCl	Aleve-D Sinus and Headache

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

<b>Generic Name</b>	<b>Brand Name</b>
naproxen sodium/pseudoephedrine HCl	All Day Cold and Sinus
naproxen sodium/pseudoephedrine HCl	All Day Pain Relief Sinus,Cold
naproxen sodium/pseudoephedrine HCl	Cold and Sinus
naproxen sodium/pseudoephedrine HCl	Cold-Sinus Relief
naproxen sodium/pseudoephedrine HCl	Sinus and Cold-D
naproxen sodium/pseudoephedrine HCl	Sudafed 12 Hr Pressure-Pain
naproxen sodium/pseudoephedrine HCl	Sudafed 12 Hr Sinus-Pain
naproxen sodium/pseudoephedrine HCl	Sudafed Sinus 12Hr Pressr-Pain
naproxen/capsaicin/menthol	NaproPax
naproxen/capsaicin/menthol	NaproxenPax
naproxen/capsaicin/menthol/methyl salicylate	Pain Relief Collection
naproxen/dietary supplement,misc. cb.11	Theraproxen
naproxen/dietary supplement,misc. cb.11	Theraproxen-90
naproxen/esomeprazole magnesium	Vimovo
naproxen/esomeprazole magnesium	naproxen-esomeprazole
naproxen/irritant counter-irritant combination no.2	Comfort Pac-Naproxen
nepafenac	Ilevro
nepafenac	Nevanac
oxaprozin	Daypro
oxaprozin	oxaprozin
phenylbutazone	phenylbutazone (bulk)
phenylephrine HCl/ketorolac tromethamine	Omidria
piroxicam	Feldene
piroxicam	piroxicam
piroxicam	piroxicam (bulk)
piroxicam/dietary supplement,misc. cb.11	Therafeldamine
prednisolone acetate/bromfenac sodium	prednisolone acetate-bromfenac
prednisolone acetate/gatifloxacin/bromfenac sodium	prednisol ace-gatiflox-bromfen
prednisolone acetate/gatifloxacin/nepafenac	prednisolone-gatiflox-nepafen
prednisolone acetate/moxifloxacin HCl/bromfenac sodium	prednisolone-moxiflox-bromfen
prednisolone acetate/moxifloxacin HCl/nepafenac	prednisolone-moxiflo-nepafenac
prednisolone acetate/nepafenac	prednisolone acetate-nepafenac
prednisolone sodium phosphate/bromfenac sodium	prednisolone sod ph-bromfenac
prednisolone sodium phosphate/gatifloxacin/bromfenac sodium	prednisoln sp-gatiflox-bromfen

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

<b>Generic Name</b>	<b>Brand Name</b>
prednisolone sodium phosphate/moxifloxacin HCl/bromfenac sod	prednisoln sp-moxiflox-bromfen
rofecoxib	Vioxx
ropivacaine HCl/clonidine HCl/ketorolac tromethamine	ropivacaine-clonidin-ketorolac
ropivacaine HCl/epinephrine/clonidine HCl/ketorolac trometh	ropivacaine-epi-clonid-ketorol
ropivacaine/ketorolac/ketamine	ropivacaine-ketorolac-ketamine
sulindac	Clinoril
sulindac	sulindac
sulindac	sulindac (bulk)
sumatriptan succinate/naproxen sodium	Treximet
sumatriptan succinate/naproxen sodium	sumatriptan-naproxen
suprofen	Profenal
tolmetin sodium	Tolectin DS
tolmetin sodium	tolmetin
tramadol HCl/celecoxib	Seglentis
tropicamide/proparacaine/phenylephrine/ketorolac in water	Mydriatic4(trop-prop-PE-ktrlc)
tropicamide/proparacaine/phenylephrine/ketorolac in water	tropic-proparacai-pe-ketor-wat
valdecoxib	Bextra
<b>Benzodiazepine Use</b>	
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	amitriptyline-chlordiazepoxide
amobarbital sodium	Amytal
bromelains/melatonin/herbal complex no.233	MidNite PM
butabarbital sodium	Butisol
calcium carb,hydroxide/soy isoflavone/black cohosh/melatonin	Estroven Nighttime (cal-meltn)
calcium phosphate/melatonin	calcium-melatonin
chloral hydrate	Somnote
chloral hydrate	chloral hydrate
chlordiazepoxide HCl	Librium

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

<b>Generic Name</b>	<b>Brand Name</b>
chlordiazepoxide HCl	chlordiazepoxide HCl
clobazam	Onfi
clobazam	Sympazan
clobazam	clobazam
clonazepam	Klonopin
clonazepam	clonazepam
clorazepate dipotassium	Tranxene T-Tab
clorazepate dipotassium	Tranxene-SD
clorazepate dipotassium	clorazepate dipotassium
daridorexant HCl	Quviviq
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	Diastat
diazepam	Diastat AcuDial
diazepam	Diazepam Intensol
diazepam	Valium
diazepam	Valtoco
diazepam	diazepam
diphenhydramine HCl	diphenhydramine HCl
doxepin HCl	Silenor
doxepin HCl	doxepin
estazolam	Prosom
estazolam	estazolam
eszopiclone	Lunesta
eszopiclone	eszopiclone
ethyl alcohol/herbal drugs	Lydia Pinkham Herbal
flurazepam HCl	flurazepam
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	Meladox
melatonin	Melatin

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

<b>Generic Name</b>	<b>Brand Name</b>
melatonin	VitaJoy Melatonin
melatonin	melatonin
melatonin/5-HTP/valerian/folic acid/dietary combination 28	Hypnosom
melatonin/5-Hydroxytryptophan/tryptophan/B6/magnesium oxide	Somnicin
melatonin/GABA/5-HTP/theanine/magnesium citrate,oxide/herbs	Sopordren
melatonin/chamomile flower	melatonin-chamomile flower
melatonin/gamma-aminobutyric acid/herbal complex no.183	Sintralyne-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/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)	Melatonex
melatonin/pyridoxine HCl (vit B6)	melatonin-pyridoxine HCl (B6)
melatonin/theanine	melatonin-theanine
melatonin/tryptophan	Restone
melatonin/tryptophan	Wrestone
melatonin/tryptophan/valerian/chamomile/niacin/inositol/B6	Toprophan
mephobarbital	Mebaral
mephobarbital	mephobarbital
midazolam	Nayzilam
midazolam HCl	midazolam
midazolam HCl in 0.9 % sodium chloride	midazolam in 0.9 % sod chlorid
midazolam HCl in 0.9 % sodium chloride/PF	midazolam (PF) in 0.9 % NaCl
midazolam HCl in 5 % dextrose and water/PF	midazolam in dextrose 5 % (PF)
midazolam HCl in dextrose 5% in water	midazolam in dextrose 5 %
midazolam HCl/PF	midazolam (PF)
midazolam in sodium chloride, iso-osmotic	midazolam in NaCl, iso-osmotic
midazolam in sodium chloride, iso-osmotic/PF	midazolam in NaCl,iso-osmo(PF)

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

<b>Generic Name</b>	<b>Brand Name</b>
oxazepam	oxazepam
pentobarbital sodium	Nembutal Sodium
pentobarbital sodium	pentobarbital sodium
phenobarbital	phenobarbital
phenobarbital sodium	Luminal
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
remimazolam besylate	Byfavo
secobarbital sodium	Seconal Sodium
suvorexant	Belsomra
tasimelteon	Hetlioz
tasimelteon	Hetlioz LQ
temazepam	Restoril
temazepam	temazepam
temazepam/dietary supplement no.8	Strazepam
triazolam	Halcion
triazolam	triazolam
tryptophan	tryptophan
valerian root extract	valerian root extract
valerian root extract/hops	valerian root extract-hops
zaleplon	Sonata
zaleplon	zaleplon
zolpidem tartrate	Ambien
zolpidem tartrate	Ambien CR
zolpidem tartrate	Edluar
zolpidem tartrate	Intermezzo
zolpidem tartrate	Zolpimist
zolpidem tartrate	zolpidem

### Appendix I. Specifications Defining Parameters in this Request

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool, version 10.3.2, to assess use of long-acting injectable antipsychotics in the Sentinel Distributed Database (SDD).

**Query period:** From earliest available Data Partner data to last date of Data Partner death ascertainment (1/2010 to 6/2021)

**Coverage requirement:** Medical & Drug Coverage

**Pre-index enrollment requirement:** 183 days

**Post-index enrollment requirement:** N/A

**Enrollment gap:** 45 days

**Age groups:** 18-64, 65 years or greater (Note that some scenarios listed below are age-specific, so will only include 18-64 or 65+ years)

**Stratifications:** Year, Sex, Age Group, Race, Hispanic

**Censor output categorization:** Death, Data Partner End Date, Query End Date

**Restrictions:** None

**Envelope macro:** No reclassification

**Distribution of index-defining codes:** Yes

**Freeze data:** No

#### Exposure/Event

Scenario	Index Exposure/Event	Cohort definition	Exclude evidence of days				Principal diagnosis position	Forced supply to attach to dispensings	Create Baseline Table?	Censor enrollment at evidence of
			Washout period (days)	supply if exposure washout includes dispensings	Care setting					
1	LAIA Users	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
2	Institutional Stays Among LAIA Users	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
3	LAIA with Institutional Stays 60 Days Prior	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
4	LAIA Between Institutional Stay Admit and Discharge Dates	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		

**Appendix I. Specifications Defining Parameters in this Request**

Scenario	Index Exposure/Event	Cohort definition	Exposure/Event				Principal diagnosis position	Forced supply to attach to dispensings	Create Baseline Table?	Censor enrollment at evidence of
			Washout period (days)	Exclude evidence of days supply if exposure washout includes dispensings	Care setting					
5	Dementia Among LAIA Users	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
6	Age 65 and Older Among LAIA Users	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
7	LAIA Users without Institutional Stays	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
8	LAIA Users without Dementia	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
9	Age Under 65 Among LAIA Users	All valid index dates during query period	-183	Washout lookback period should search for evidence of days supply;	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
10	LAIA Users	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
11	Institutional Stays Among LAIA Users	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
12	LAIA with Institutional Stays 60 Days Prior	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		
13	LAIA Between Institutional Stay Admit and Discharge Dates	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date		



**Appendix I. Specifications Defining Parameters in this Request**

Scenario	Index Exposure/Event	Cohort definition	Exposure/Event			Principal diagnosis position	Forced supply to attach to dispensings	Create Baseline Table?	Censor enrollment at evidence of
			Washout period (days)	Exclude evidence of days supply if exposure washout includes dispensings	Care setting				
14	Dementia Among LAIA Users	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date	
15	Age 65 and Older Among LAIA Users	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date	
16	LAIA Users without Institutional Stays	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date	
17	LAIA Users without Dementia	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date	
18	Age Under 65 Among LAIA Users	All valid index dates during query period	0	N/A	*Any care setting	Any	Yes	*Death; *Data Partner End Date; *Query End Date	

Appendix I. Specifications Defining Parameters in this Request

Scenario	Inclusion/ Exclusion	Criteria	Care setting	Principal diagnosis position	Evaluation		Inclusion/Exclusion Criteria			Minimum Days Supplied	Minimum cumulative dose	Minimum average daily dose	Maximum average daily dose	Minimum current daily dose	Maximum current daily dose	Forced supply to attach to dispensings
					period start (days)	Evaluation period end (days)	Exclude evidence of days supply if inclusion/ exclusion includes dispensings	evaluation period found in evaluation period	Number of instances the criteria should be							
1	N/A															
2	Institutional Stay	Inclusion	Non-acute institutional stay	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
3	Institutional Stay	Inclusion	Non-acute institutional stay	Any	-60	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4	Institutional Stay	Inclusion	Non-acute institutional stay	Any	0	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
5	Dementia	Inclusion	Any	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
6	Age >=65	Inclusion	Any	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
7	Institutional Stay	Exclusion	Non-acute institutional stay	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
8	Dementia	Exclusion	Any	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	Age <65	Inclusion	Any	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	N/A															
11	Institutional Stay	Inclusion	Non-acute institutional stay	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Appendix I. Specifications Defining Parameters in this Request

Scenario	Inclusion/ Exclusion	Criteria	Care setting	Principal diagnosis position	Evaluation		Inclusion/Exclusion Criteria		Minimum Days Supplied	Minimum cumulative dose	Minimum average daily dose	Maximum average daily dose	Minimum current daily dose	Maximum current daily dose	Forced supply to attach to dispensings
					period start (days)	period end (days)	Exclude evidence of days supply if inclusion/ exclusion includes dispensings	Number of instances the criteria should be found in evaluation period							
12	Institutional Stay	Inclusion	Non-acute institutional stay	Any	-60	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	Institutional Stay	Inclusion	Non-acute institutional stay	Any	0	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	Dementia	Inclusion	Any	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	Age >=65	Inclusion	Any	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	Institutional Stay	Exclusion	Non-acute institutional stay	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	Dementia	Exclusion	Any	Any	-183	0	N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	Age <65	Inclusion	Any	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A

International Classification for Diseases, Ninth Revision (ICD-9) and Tenth Revision (ICD-10), Healthcare Common Procedure Coding System (HCPCS), and Clinical Procedural Terminology (CPT) codes are provided by Optum360.  
National Drug Codes (NDCs) are checked against First Data Bank's FDB MedKnowledge®.

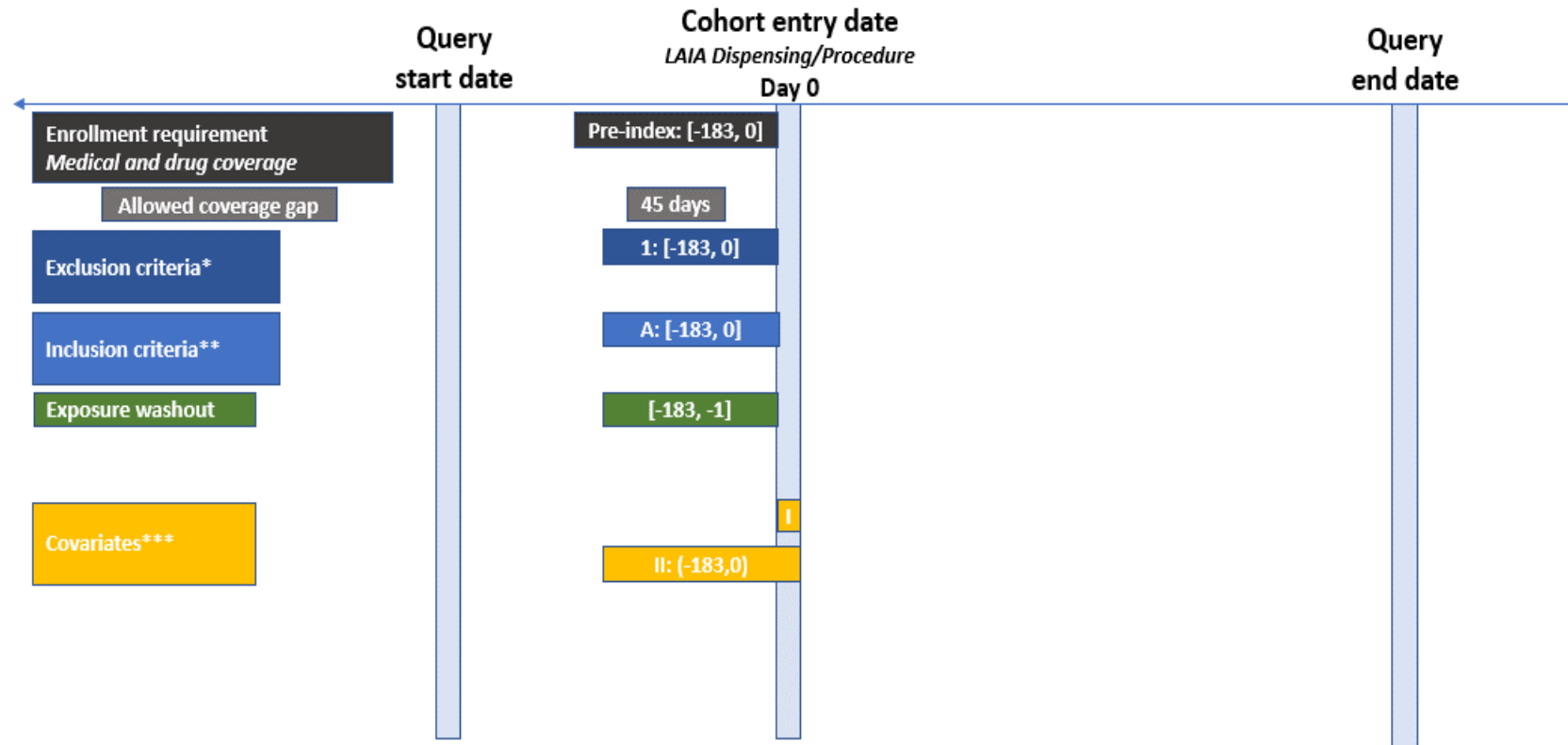
**Appendix J. Specifications Defining Baseline Characteristics in this Request**

Covariates											
Covariate	Care setting	Principal diagnosis position	Code Category	Evaluation period start (days)	Evaluation period end (days)	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum cumulative dose	Minimum average daily dose	Forced supply to attach to dispensings
Charlson Comorbidity Index	Any	Any		-183	0		1				
Substance abuse	Any	Any		-183	0		1				
Atrial fibrillation/flutter	Any	Any		-183	0		1				
Ischemic heart disease	Any	Any		-183	0		1				
Heart failure	Any	Any		-183	0		1				
Stroke	Any	Any		-183	0		1				
Diabetes	Any	Any		-183	0		1				
Hypertension	Any	Any		-183	0		1				
Rheumatic disease	Any	Any		-183	0		1				
Chronic kidney disease	Any	Any		-183	0		1				
Seizure disorder	Any	Any		-183	0		1				
Dementia	Any	Any		-183	0		1				
Parkinson's disease	Any	Any		-183	0		1				
COPD	Any	Any		-183	0		1				
Malignancy	Any	Any		-183	0		1				
Asthma	Any	Any		-183	0		1				
Hyperlipidemia	Any	Any		-183	0		1				
Depression	Any	Any		-183	0		1				
Schizophrenia	Any	Any		-183	0		1				
Bipolar disorder	Any	Any		-183	0		1				
ACE inhibitor use	Any	Any		-183	0		1				
ARB use	Any	Any		-183	0		1				
β-Blocker use	Any	Any		-183	0		1				
Oral anticoagulant use	Any	Any		-183	0		1				
Antiplatelet agent use	Any	Any		-183	0		1				
Opioid use	Any	Any		-183	0		1				
Statin use	Any	Any		-183	0		1				

**Appendix J. Specifications Defining Baseline Characteristics in this Request**

Covariates											
Covariate	Care setting	Principal diagnosis position	Code Category	Evaluation period start (days)	Evaluation period end (days)	Exclude evidence of days supply if covariate includes dispensings	Number of instances the covariate should be found in evaluation period	Minimum Days Supplied	Minimum cumulative dose	Minimum average daily dose	Forced supply to attach to dispensings
Wheelchair or walker use	Any	Any		-183	0		1				
No. of ambulatory encounters	Any	Any		-183	0		1				
No. of inpatient encounters	Any	Any		-183	0		1				
Anti-arrhythmic use	Any	Any		-183	0		1				
Antidiabetic use	Any	Any		-183	0		1				
Calcium channel blocker use	Any	Any		-183	0		1				
Diuretic use	Any	Any		-183	0		1				
Antidepressant use	Any	Any		-183	0		1				
Gastric acid suppressant use	Any	Any		-183	0		1				
NSAIDs	Any	Any		-183	0		1				
Benzodiazepine-Hypnotics use	Any	Any		-183	0		1				
Chronic liver disease	Any	Any		-183	0		1				
Pneumonia	Any	Any		-183	0		1				
Cardiac arrhythmia	Any	Any		-183	0		1				
Paliperidone palmitate	Any	Any		-183	0		1				
Risperidone microspheres	Any	Any		-183	0		1				
Haloperidol decanoate	Any	Any		-183	0		1				
Number of institutional stays	Any	Any		-183	0		1				
Age 65+ at index	Any	Any		-183	0		1				
Dementia status at index (diagnosis only)	Any	Any		-183	0		1				
Dementia status at index (diagnosis + treatment)	Any	Any		-183	0		1				
Injection in past 30 days	Any	Any		-30	-1		1				
Injection in past 60 days	Any	Any		-60	-1		1				
Injection in the past 90 days	Any	Any		-90	-1		1				
Injection in the past 183 days	Any	Any		-183	-1		1				

Appendix K. Diagram Detailing the Design of the Request



**\*Exclusion Criteria**

Window 1:

- For Cohort 5, excluding institutional stays.
- For Cohort 6, excluding dementia.
- For Cohort 7, excluding age >=65

**\*\*Inclusion Criteria**

Window A:

- For Cohort 2, including institutional stays.
- For Cohort 3, including dementia.
- For Cohort 4, including age >=65

**\*\*\*Covariates:**

Window I: Age, sex

Window II: Charlson Comorbidity Index, mean (SD); Substance abuse; Atrial fibrillation/flutter; Ischemic heart disease; Heart failure; Stroke; Diabetes; Hypertension; Rheumatic disease; Chronic kidney disease; Seizure disorder; Dementia; Parkinson's disease; COPD; Malignancy; Asthma; Hyperlipidemia; Depression; Schizophrenia; Bipolar disorder; ACE inhibitor use; ARB use;  $\beta$ -Blocker use; Oral anticoagulant use; Antiplatelet agent use; Opioid use; Statin use; Wheelchair or walker use; No. of ambulatory encounters, mean (SD); No. of inpatient encounters, mean (SD); Anti-arrhythmic use; Antidiabetic use; Calcium Channel Blocker use; Diuretic use; Antidepressant use; Gastric acid suppressant use; NSAIDs; Benzodiazepine-Hypnotics use; Chronic liver disease; Pneumonia; Cardiac arrhythmia; Paliperidone palmitate; Risperidone microspheres; Haloperidol decanoate; Number of institutional Stays; Length of institutional stay 0-7 days; ; Length of institutional stay 8-14 days; Length of institutional stay 15-30 days; Length of institutional stay 30-60 days; Length of institutional stay 61+ days; Age 65+ at index; Dementia status at index (diagnosis only); Dementia status at index (diagnosis + treatment)