

## 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\_wp116

**Request ID:** cder\_mpl1r\_wp116\_nsdv\_v02

**Report Description:** In this report we described baseline characteristics and the duration of follow-up time among new users of 38 new molecular entities (NMEs) approved in 2012 by the U.S. Food and Drug Administration in the Sentinel Distributed Database (SDD).

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 7.3.3.

**Data Source:** We distributed this request to 17 Data Partners on June 28, 2019. The study period included data from January 1, 2012 to January 31, 2019. Please see Appendix A for a list of dates of available data for each Data Partner.

**Study Design:** We designed this request to characterize new users of NMEs approved in 2012 and calculate the duration of follow-up time among new users of each drug. Data were further stratified by age, sex, and calendar year. Graphs presenting trends for utilization of new users of NME drugs by monthly intervals are included in this report.

**Exposures of Interest:** The exposures of interest were NMEs approved in 2012 administered or dispensed in any care setting. We defined these exposures using Healthcare Common Procedure Coding System (HCPCS) procedure codes and National Drug Codes (NDCs). See Appendix B for a list of HCPCS codes and Appendix C for a list of generic and brand drug names used to define exposures in this request.

**Cohort Eligibility Criteria:** We required members included in the cohort to be continuously enrolled in health plans with both medical and drug coverage for at least 365 days prior to their first qualifying (index) exposure, during which gaps in coverage of up to 45 days were allowed. We included the following age groups in the cohorts: 0-18, 19-64, and 65+ years.

**Baseline Characteristics:** We reported each member's age at time of exposure and year of exposure on the index date of each NME exposure episode. We additionally included the sex of each exposed member included in the cohorts.

We also assessed the recorded history of 31 additional characteristics among each NME cohort in the year prior to drug initiation. We defined 24 of the characteristics using Centers for Medicare and Medicaid Services' (CMS) Chronic Conditions Data Warehouse<sup>1</sup> (CCW) algorithms. These included: acute myocardial infarction, Alzheimer's disease and related conditions, heart failure, depression, ischemic heart disease, rheumatoid arthritis/osteoarthritis, anemia, glaucoma, atrial fibrillation, diabetes, hyperlipidemia, hypertension, stroke/transient ischemic attack, breast cancer, colorectal cancer, prostate cancer, lung cancer, endometrial cancer, acquired hypothyroidism, asthma, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disease and bronchiectasis, and osteoporosis. We additionally assessed the following characteristics during the baseline period: obesity, overweight, smoking, alcohol abuse or dependence, drug abuse or dependence, history of cardiac arrest, and history of coronary angioplasty or bypass.

Please refer to Appendix D for the algorithms used to define characteristics in this request. International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) diagnosis and procedure codes, International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes, International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS) procedure codes, HCPCS procedure codes, Current Procedural Terminology, Fourth Edition (CPT-4) procedure codes, and NDCs were used to define characteristics. See Appendix E for diagnosis and procedure codes used to define characteristics in this request. See Appendix F for a list of generic drug names used to define characteristics in this request.

**Follow-Up Time:** Follow-up began on the day of the first valid NME administration or dispensing and continued until the first occurrence of any of the following: 1) disenrollment; 2) death; 3) the end of the data provided by each Data Partner; or 4) the end of the query period. Follow-up was stratified by the following intervals of time: <1, 1-2, 3-4, and 5+ years.

**Please refer to Appendix G for detailed specifications of parameters used in the analyses for this request.**

**Limitations:** Algorithms used to define exposures and characteristics are imperfect; thus, it is possible that there may be misclassification. Therefore, data should be interpreted with this limitations 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.

<sup>1</sup> Centers for Medicare and Medicaid Services. (2018). "Chronic Conditions Data Warehouse." Available at: <https://www.ccwdata.org/web/guest/condition-categories>

**Table of Contents**

<b><u>Glossary</u></b>	List of Terms Found in this Report and their Definitions
<b><u>Table 1a</u></b>	Baseline Characteristics for New Users of Acridinium Bromide the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1b</u></b>	Baseline Characteristics for New Users of Apixaban in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1c</u></b>	Baseline Characteristics for New Users of Avanafil in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1d</u></b>	Baseline Characteristics for New Users of Axinitib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1e</u></b>	Baseline Characteristics for New Users of Bedaquiline in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1f</u></b>	Baseline Characteristics for New Users of Bosutinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1g</u></b>	Baseline Characteristics for New Users of Cabozantinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1h</u></b>	Baseline Characteristics for New Users of Carfilzomib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1i</u></b>	Baseline Characteristics for New Users of Choline C 11 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1j</u></b>	Baseline Characteristics for New Users of Crofelemer in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1k</u></b>	Baseline Characteristics for New Users of Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1l</u></b>	Baseline Characteristics for New Users of Enzalutamide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1m</u></b>	Baseline Characteristics for New Users of Florbetapir F 18 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1n</u></b>	Baseline Characteristics for New Users of Glucarpidase in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1o</u></b>	Baseline Characteristics for New Users of Ingenol Mebutate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1p</u></b>	Baseline Characteristics for New Users of Ivacaftor in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1q</u></b>	Baseline Characteristics for New Users of Linaclotide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1r</u></b>	Baseline Characteristics for New Users of Lomitapide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1s</u></b>	Baseline Characteristics for New Users of Lorcaserin Hydrochloride in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1t</u></b>	Baseline Characteristics for New Users of Lucinactant in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019

**Table of Contents**

<b><u>Table 1u</u></b>	Baseline Characteristics for New Users of Mirabegron in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1v</u></b>	Baseline Characteristics for New Users of Sodium Picosulfate/Magnesium Oxide/Citric Acid in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1w</u></b>	Baseline Characteristics for New Users of Orciprasmin in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1x</u></b>	Baseline Characteristics for New Users of Omacetaxine Mepesuccinate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1y</u></b>	Baseline Characteristics for New Users of Pasireotide Diaspartate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1z</u></b>	Baseline Characteristics for New Users of Peginesatide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1aa</u></b>	Baseline Characteristics for New Users of Perampanel in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ab</u></b>	Baseline Characteristics for New Users of Pertuzumab in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ac</u></b>	Baseline Characteristics for New Users of Ponatinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ad</u></b>	Baseline Characteristics for New Users of Regorafenib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ae</u></b>	Baseline Characteristics for New Users of Tafluprost in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1af</u></b>	Baseline Characteristics for New Users of Taliglucerase Alfa in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ag</u></b>	Baseline Characteristics for New Users of Tbo-Filgrastim in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ah</u></b>	Baseline Characteristics for New Users of Teduglutide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ai</u></b>	Baseline Characteristics for New Users of Teriflunomide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1aj</u></b>	Baseline Characteristics for New Users of Tofacitinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1ak</u></b>	Baseline Characteristics for New Users of Vismodegib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 1al</u></b>	Baseline Characteristics for New Users of Ziv-Aflibercept in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019
<b><u>Table 2a</u></b>	Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, Overall
<b><u>Table 2b</u></b>	Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, Overall
<b><u>Table 3a</u></b>	Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year

**Table of Contents**

**Table 3b** Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year

**Table 4a** Summary of New Users of New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Sex

**Table 4b** Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex

**Table 5a** Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group

**Table 5b** Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group

**Figure 1a** Counts of New Acridinium Bromide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1b** Counts of New Apixaban Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1c** Counts of New Avanafil Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1d** Counts of New Axitinib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1e** Counts of New Bedaquiline Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1f** Counts of New Bosutinib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1g** Counts of New Cabozantinib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1h** Counts of New Carfilzomib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1i** Counts of New Choline C11 Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1j** Counts of New Crofelemer Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1k** Counts of New Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoprorxil Fumarate Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1l** Counts of New Enzalutamide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1m** Counts of New Florbetapir F 18 Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1n** Counts of New Glucarpidase Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1o** Counts of New Ingenol Mebutate Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Figure 1p** Counts of New Ivacaftor Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Table of Contents**

<b><u>Figure 1q</u></b>	Counts of New Linaclotide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1r</u></b>	Counts of New Lomitapide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1s</u></b>	Counts of New Lorcaserin Hydrochloride Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1t</u></b>	Counts of New Lucinactant Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1u</u></b>	Counts of New Mirabegron Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1v</u></b>	Counts of New Sodium Picosulfate/Magnesium Oxide/Citric Acid Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1w</u></b>	Counts of New Ocriplasmin Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1x</u></b>	Counts of New Omacetaxine Mepesuccinate Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1y</u></b>	Counts of New Pasireotide Diaspartate Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1z</u></b>	Counts of New Peginesatide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1aa</u></b>	Counts of New Perampanel Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ab</u></b>	Counts of New Pertuzumab Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ac</u></b>	Counts of New Ponatinib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ad</u></b>	Counts of New Regorafenib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ae</u></b>	Counts of New Tafluporst Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1af</u></b>	Counts of New Taliglucerase Alfa Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ag</u></b>	Counts of New Tbo-Filgrastim Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure 1ah</u></b>	Counts of New Teduglutide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure ai</u></b>	Counts of New Teriflunomide Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure aj</u></b>	Counts of New Tofacitinb Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019
<b><u>Figure ak</u></b>	Counts of New Vismodegib Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Table of Contents**

**Figure a1** Counts of New Ziv-Aflibercept Users over Time in the Sentinel Distributed Database (SDD) between January, 1 2012 and January 31, 2019

**Appendix A** Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (June 30, 2018)

**Appendix B** List of Healthcare Common Procedure Coding System (HCPCS) Procedure Codes Used to Define Exposures of Interest in this Request

**Appendix C** List of Generic and Brand Drug Names Used to Define Exposures of Interest in this Request

**Appendix D** Algorithms used to Define Baseline Characteristics in this Request

**Appendix E** List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM), International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Fourth Edition (CPT-4) Diagnosis and Procedure Codes Used to Define Baseline Characteristics in this Request

**Appendix F** List of Generic Drug Names Used to Define Baseline Characteristics of Interest in this Request

**Appendix G** Specifications Defining Parameters in 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).

**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. Baseline Characteristics for New Users of Acclidinium Bromide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	103,986	100%
Number of unique patients	103,986	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	69.2	10.9
<b>Age (years)</b>	<b>Number</b>	<b>Percent</b>
0-18	27	0.0%
19-64	32,626	31.4%
65+	71,333	68.6%
<b>Sex</b>		
Female	57,142	55.0%
Male	46,831	45.0%
Other	13	0.0%
<b>Year</b>		
2012	297	0.3%
2013	26,913	25.9%
2014	33,529	32.2%
2015	32,371	31.1%
2016	6,472	6.2%
2017	3,566	3.4%
2018	838	0.8%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	17,854	17.2%
Acute myocardial infarction	1,703	1.6%
Alcohol abuse or dependence	1,822	1.8%
Alzheimer's disease and related conditions	5,994	5.8%
Anemia	31,763	30.5%
Asthma	24,612	23.7%
Atrial fibrillation	14,866	14.3%
Benign prostatic hyperplasia	9,157	8.8%
Breast cancer	3,099	3.0%
Chronic kidney disease	19,324	18.6%
Chronic obstructive pulmonary disorder and bronchiectasis	82,181	79.0%
Colorectal cancer	1,401	1.3%
Depression	29,297	28.2%
Diabetes	32,190	31.0%
Drug abuse or dependence	774	0.7%
Endometrial cancer	220	0.2%
Glaucoma	11,940	11.5%
Heart failure	25,661	24.7%
History of cardiac arrest	193	0.2%
History of coronary angioplasty or bypass	12,649	12.2%
Hyperlipidemia	59,203	56.9%
Hypertension	74,125	71.3%
Ischemic heart disease	40,457	38.9%
Lung cancer	4,647	4.5%
Obesity	22,090	21.2%

**Table 1a. Baseline Characteristics for New Users of Acclidinium Bromide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	8,824	8.5%
Overweight	5,062	4.9%
Prostate cancer	3,080	3.0%
Rheumatoid arthritis/osteoarthritis	28,936	27.8%
Smoking	52,860	50.8%
Stroke/transient ischemic attack	4,987	4.8%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1b. Baseline Characteristics for New Users of Apixaban in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	1,192,648	100%
Number of unique patients	1,192,648	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	75.4	10.5
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	211	0.0%
19-64	159,514	13.4%
65+	1,032,923	86.6%
Sex		
Female	635,722	53.3%
Male	556,908	46.7%
Other	18	0.0%
Year		
2012	0	0.0%
2013	*****	*****
2014	116,994	9.8%
2015	224,682	18.8%
2016	315,226	26.4%
2017	344,577	28.9%
2018	160,345	13.4%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	273,564	22.9%
Acute myocardial infarction	53,677	4.5%
Alcohol abuse or dependence	31,298	2.6%
Alzheimer's disease and related conditions	149,582	12.5%
Anemia	471,925	39.6%
Asthma	115,057	9.6%
Atrial fibrillation	757,904	63.5%
Benign prostatic hyperplasia	144,804	12.1%
Breast cancer	55,887	4.7%
Chronic kidney disease	428,244	35.9%
Chronic obstructive pulmonary disorder and bronchiectasis	294,029	24.7%
Colorectal cancer	27,268	2.3%
Depression	273,639	22.9%
Diabetes	417,697	35.0%
Drug abuse or dependence	18,197	1.5%
Endometrial cancer	7,429	0.6%
Glaucoma	174,672	14.6%
Heart failure	439,927	36.9%
History of cardiac arrest	5,472	0.5%
History of coronary angioplasty or bypass	212,589	17.8%
Hyperlipidemia	798,915	67.0%
Hypertension	1,011,427	84.8%
Ischemic heart disease	586,699	49.2%
Lung cancer	24,457	2.1%
Obesity	331,905	27.8%

**Table 1b. Baseline Characteristics for New Users of Apixaban in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	107,222	9.0%
Overweight	111,682	9.4%
Prostate cancer	56,007	4.7%
Rheumatoid arthritis/osteoarthritis	412,706	34.6%
Smoking	401,859	33.7%
Stroke/transient ischemic attack	170,036	14.3%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1c. Baseline Characteristics for New Users of Avanafil in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	15,359	100%
Number of unique patients	15,359	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	55.8	10.2
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	12,750	83.0%
65+	*****	*****
Sex		
Female	11	0.1%
Male	15,348	99.9%
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	6,211	40.4%
2015	5,083	33.1%
2016	2,576	16.8%
2017	1,221	7.9%
2018	268	1.7%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	713	4.6%
Acute myocardial infarction	33	0.2%
Alcohol abuse or dependence	296	1.9%
Alzheimer's disease and related conditions	34	0.2%
Anemia	1,153	7.5%
Asthma	413	2.7%
Atrial fibrillation	375	2.4%
Benign prostatic hyperplasia	2,168	14.1%
Breast cancer	*****	*****
Chronic kidney disease	928	6.0%
Chronic obstructive pulmonary disorder and bronchiectasis	377	2.5%
Colorectal cancer	61	0.4%
Depression	1,599	10.4%
Diabetes	2,992	19.5%
Drug abuse or dependence	94	0.6%
Endometrial cancer	0	0.0%
Glaucoma	990	6.4%
Heart failure	289	1.9%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	354	2.3%
Hyperlipidemia	5,825	37.9%
Hypertension	6,296	41.0%
Ischemic heart disease	1,574	10.2%
Lung cancer	19	0.1%
Obesity	2,181	14.2%
Osteoporosis	49	0.3%

**Table 1c. Baseline Characteristics for New Users of Avanafil in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	841	5.5%
Prostate cancer	1,250	8.1%
Rheumatoid arthritis/osteoarthritis	1,570	10.2%
Smoking	1,510	9.8%
Stroke/transient ischemic attack	135	0.9%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1d. Baseline Characteristics for New Users of Axitinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	4,028	100%
Number of unique patients	4,028	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	68.3	8.8
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	2,770	68.8%
Sex		
Female	1,212	30.1%
Male	2,816	69.9%
Other	0	0.0%
Year		
2012	651	16.2%
2013	725	18.0%
2014	790	19.6%
2015	845	21.0%
2016	498	12.4%
2017	384	9.5%
2018	135	3.4%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	1,234	30.6%
Acute myocardial infarction	58	1.4%
Alcohol abuse or dependence	47	1.2%
Alzheimer's disease and related conditions	91	2.3%
Anemia	2,353	58.4%
Asthma	229	5.7%
Atrial fibrillation	512	12.7%
Benign prostatic hyperplasia	603	15.0%
Breast cancer	123	3.1%
Chronic kidney disease	3,968	98.5%
Chronic obstructive pulmonary disorder and bronchiectasis	613	15.2%
Colorectal cancer	121	3.0%
Depression	751	18.6%
Diabetes	1,382	34.3%
Drug abuse or dependence	32	0.8%
Endometrial cancer	*****	*****
Glaucoma	405	10.1%
Heart failure	661	16.4%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	411	10.2%
Hyperlipidemia	2,115	52.5%
Hypertension	3,194	79.3%
Ischemic heart disease	1,318	32.7%
Lung cancer	548	13.6%
Obesity	658	16.3%

**Table 1d. Baseline Characteristics for New Users of Axitinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	134	3.3%
Overweight	268	6.7%
Prostate cancer	264	6.6%
Rheumatoid arthritis/osteoarthritis	865	21.5%
Smoking	1,377	34.2%
Stroke/transient ischemic attack	224	5.6%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1e. Baseline Characteristics for New Users of Bedaquiline in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	39	100%
Number of unique patients	39	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	55.4	13.6
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	24	61.5%
65+	15	38.5%
Sex		
Female	24	61.5%
Male	15	38.5%
Other	0	0.0%
Year		
2012	0	0.0%
2013	*****	*****
2014	*****	*****
2015	*****	*****
2016	*****	*****
2017	13	33.3%
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	*****	*****
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	*****	*****
Anemia	15	38.5%
Asthma	*****	*****
Atrial fibrillation	*****	*****
Benign prostatic hyperplasia	*****	*****
Breast cancer	*****	*****
Chronic kidney disease	*****	*****
Chronic obstructive pulmonary disorder and bronchiectasis	27	69.2%
Colorectal cancer	*****	*****
Depression	11	28.2%
Diabetes	*****	*****
Drug abuse or dependence	*****	*****
Endometrial cancer	0	0.0%
Glaucoma	*****	*****
Heart failure	*****	*****
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	*****	*****
Hyperlipidemia	*****	*****
Hypertension	18	*****
Ischemic heart disease	*****	23.1%
Lung cancer	*****	2.6%
Obesity	*****	2.6%

**Table 1e. Baseline Characteristics for New Users of Bedaquiline in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	*****	*****
Overweight	*****	*****
Prostate cancer	0	0.0%
Rheumatoid arthritis/osteoarthritis	*****	*****
Smoking	*****	*****
Stroke/transient ischemic attack	0	0.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1f. Baseline Characteristics for New Users of Bosutinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	1,458	100%
Number of unique patients	1,458	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	66	13.2
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	903	61.9%
Sex		
Female	750	51.4%
Male	708	48.6%
Other	0	0.0%
Year		
2012	75	5.1%
2013	221	15.2%
2014	263	18.0%
2015	255	17.5%
2016	252	17.3%
2017	296	20.3%
2018	96	6.6%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	293	20.1%
Acute myocardial infarction	46	3.2%
Alcohol abuse or dependence	31	2.1%
Alzheimer's disease and related conditions	59	4.0%
Anemia	903	61.9%
Asthma	147	10.1%
Atrial fibrillation	263	18.0%
Benign prostatic hyperplasia	137	9.4%
Breast cancer	47	3.2%
Chronic kidney disease	526	36.1%
Chronic obstructive pulmonary disorder and bronchiectasis	327	22.4%
Colorectal cancer	29	2.0%
Depression	414	28.4%
Diabetes	480	32.9%
Drug abuse or dependence	33	2.3%
Endometrial cancer	*****	*****
Glaucoma	161	11.0%
Heart failure	507	34.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	250	17.1%
Hyperlipidemia	757	51.9%
Hypertension	1,025	70.3%
Ischemic heart disease	580	39.8%
Lung cancer	22	1.5%
Obesity	334	22.9%
Osteoporosis	78	5.3%

**Table 1f. Baseline Characteristics for New Users of Bosutinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	126	8.6%
Prostate cancer	69	4.7%
Rheumatoid arthritis/osteoarthritis	363	24.9%
Smoking	519	35.6%
Stroke/transient ischemic attack	102	7.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1g. Baseline Characteristics for New Users of Cabozantinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	0	100%
Number of unique patients	0	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	0	0
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	0	0.0%
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	0	0.0%
Alzheimer's disease and related conditions	0	0.0%
Anemia	0	0.0%
Asthma	0	0.0%
Atrial fibrillation	0	0.0%
Benign prostatic hyperplasia	0	0.0%
Breast cancer	0	0.0%
Chronic kidney disease	0	0.0%
Chronic obstructive pulmonary disorder and bronchiectasis	0	0.0%
Colorectal cancer	0	0.0%
Depression	0	0.0%
Diabetes	0	0.0%
Drug abuse or dependence	0	0.0%
Endometrial cancer	0	0.0%
Glaucoma	0	0.0%
Heart failure	0	0.0%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	0	0.0%
Hyperlipidemia	0	0.0%
Hypertension	0	0.0%
Ischemic heart disease	0	0.0%
Lung cancer	0	0.0%
Obesity	0	0.0%

**Table 1g. Baseline Characteristics for New Users of Cabozantinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	0	0.0%
Overweight	0	0.0%
Prostate cancer	0	0.0%
Rheumatoid arthritis/osteoarthritis	0	0.0%
Smoking	0	0.0%
Stroke/transient ischemic attack	0	0.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1h. Baseline Characteristics for New Users of Carfilzomib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	0	100%
Number of unique patients	0	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	0	0
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	0	0.0%
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	0	0.0%
Alzheimer's disease and related conditions	0	0.0%
Anemia	0	0.0%
Asthma	0	0.0%
Atrial fibrillation	0	0.0%
Benign prostatic hyperplasia	0	0.0%
Breast cancer	0	0.0%
Chronic kidney disease	0	0.0%
Chronic obstructive pulmonary disorder and bronchiectasis	0	0.0%
Colorectal cancer	0	0.0%
Depression	0	0.0%
Diabetes	0	0.0%
Drug abuse or dependence	0	0.0%
Endometrial cancer	0	0.0%
Glaucoma	0	0.0%
Heart failure	0	0.0%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	0	0.0%
Hyperlipidemia	0	0.0%
Hypertension	0	0.0%
Ischemic heart disease	0	0.0%
Lung cancer	0	0.0%
Obesity	0	0.0%

**Table 1h. Baseline Characteristics for New Users of Carfilzomib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	0	0.0%
Overweight	0	0.0%
Prostate cancer	0	0.0%
Rheumatoid arthritis/osteoarthritis	0	0.0%
Smoking	0	0.0%
Stroke/transient ischemic attack	0	0.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1i. Baseline Characteristics for New Users of Choline C 11 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	1,377	100%
Number of unique patients	1,377	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	72.8	6.2
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	121	8.8%
65+	1,256	91.2%
Sex		
Female	*****	*****
Male	*****	*****
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	651	47.3%
2017	583	42.3%
2018	143	10.4%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	115	8.4%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	18	1.3%
Alzheimer's disease and related conditions	26	1.9%
Anemia	264	19.2%
Asthma	41	3.0%
Atrial fibrillation	148	10.7%
Benign prostatic hyperplasia	133	9.7%
Breast cancer	*****	*****
Chronic kidney disease	204	14.8%
Chronic obstructive pulmonary disorder and bronchiectasis	76	5.5%
Colorectal cancer	19	1.4%
Depression	121	8.8%
Diabetes	268	19.5%
Drug abuse or dependence	*****	*****
Endometrial cancer	0	0.0%
Glaucoma	168	12.2%
Heart failure	82	6.0%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	140	10.2%
Hyperlipidemia	647	47.0%
Hypertension	734	53.3%
Ischemic heart disease	399	29.0%
Lung cancer	13	0.9%
Obesity	216	15.7%

**Table 1i. Baseline Characteristics for New Users of Choline C 11 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	51	3.7%
Overweight	111	8.1%
Prostate cancer	1,339	97.2%
Rheumatoid arthritis/osteoarthritis	284	20.6%
Smoking	332	24.1%
Stroke/transient ischemic attack	23	1.7%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1j. Baseline Characteristics for New Users of Crofelemer in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	882	100%
Number of unique patients	882	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	54.5	9.7
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	753	85.4%
65+	129	14.6%
Sex		
Female	82	9.3%
Male	800	90.7%
Other	0	0.0%
Year		
2012	0	0.0%
2013	177	20.1%
2014	258	29.3%
2015	188	21.3%
2016	86	9.8%
2017	100	11.3%
2018	73	8.3%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	77	8.7%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	29	3.3%
Alzheimer's disease and related conditions	26	2.9%
Anemia	231	26.2%
Asthma	74	8.4%
Atrial fibrillation	19	2.2%
Benign prostatic hyperplasia	86	9.8%
Breast cancer	*****	*****
Chronic kidney disease	205	23.2%
Chronic obstructive pulmonary disorder and bronchiectasis	107	12.1%
Colorectal cancer	39	4.4%
Depression	395	44.8%
Diabetes	179	20.3%
Drug abuse or dependence	25	2.8%
Endometrial cancer	*****	*****
Glaucoma	59	6.7%
Heart failure	69	7.8%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	37	4.2%
Hyperlipidemia	476	54.0%
Hypertension	408	46.3%
Ischemic heart disease	151	17.1%
Lung cancer	*****	*****
Obesity	97	11.0%

**Table 1j. Baseline Characteristics for New Users of Crofelemer in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	38	4.3%
Overweight	60	6.8%
Prostate cancer	16	1.8%
Rheumatoid arthritis/osteoarthritis	132	15.0%
Smoking	271	30.7%
Stroke/transient ischemic attack	30	3.4%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1k. Baseline Characteristics for New Users of Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	20,771	100%
Number of unique patients	20,771	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	46.8	11.4
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	73	0.4%
19-64	19,403	93.4%
65+	1,295	6.2%
Sex		
Female	*****	*****
Male	16,152	77.8%
Other	*****	*****
Year		
2012	1,484	7.1%
2013	5,456	26.3%
2014	5,428	26.1%
2015	5,344	25.7%
2016	2,179	10.5%
2017	740	3.6%
2018	140	0.7%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	756	3.6%
Acute myocardial infarction	79	0.4%
Alcohol abuse or dependence	554	2.7%
Alzheimer's disease and related conditions	307	1.5%
Anemia	3,467	16.7%
Asthma	1,500	7.2%
Atrial fibrillation	189	0.9%
Benign prostatic hyperplasia	533	2.6%
Breast cancer	59	0.3%
Chronic kidney disease	1,117	5.4%
Chronic obstructive pulmonary disorder and bronchiectasis	1,432	6.9%
Colorectal cancer	147	0.7%
Depression	5,902	28.4%
Diabetes	2,128	10.2%
Drug abuse or dependence	552	2.7%
Endometrial cancer	*****	*****
Glaucoma	886	4.3%
Heart failure	591	2.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	354	1.7%
Hyperlipidemia	5,479	26.4%
Hypertension	5,544	26.7%
Ischemic heart disease	1,541	7.4%
Lung cancer	*****	*****
Obesity	1,909	9.2%
Osteoporosis	247	1.2%

**Table 1k. Baseline Characteristics for New Users of Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	703	3.4%
Prostate cancer	136	0.7%
Rheumatoid arthritis/osteoarthritis	1,670	8.0%
Smoking	5,556	26.7%
Stroke/transient ischemic attack	349	1.7%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 11. Baseline Characteristics for New Users of Enzalutamide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	34,183	100%
Number of unique patients	34,183	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	76.8	8.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	2,557	7.5%
65+	31,626	92.5%
Sex		
Female	*****	*****
Male	34,107	99.8%
Other	*****	*****
Year		
2012	*****	*****
2013	3,909	11.4%
2014	6,057	17.7%
2015	7,541	22.1%
2016	6,382	18.7%
2017	5,871	17.2%
2018	2,728	8.0%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	3,120	9.1%
Acute myocardial infarction	499	1.5%
Alcohol abuse or dependence	556	1.6%
Alzheimer's disease and related conditions	1,993	5.8%
Anemia	16,133	47.2%
Asthma	1,316	3.8%
Atrial fibrillation	5,565	16.3%
Benign prostatic hyperplasia	5,206	15.2%
Breast cancer	131	0.4%
Chronic kidney disease	11,037	32.3%
Chronic obstructive pulmonary disorder and bronchiectasis	4,645	13.6%
Colorectal cancer	994	2.9%
Depression	4,659	13.6%
Diabetes	10,435	30.5%
Drug abuse or dependence	244	0.7%
Endometrial cancer	*****	*****
Glaucoma	4,926	14.4%
Heart failure	5,666	16.6%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	4,620	13.5%
Hyperlipidemia	17,739	51.9%
Hypertension	23,716	69.4%
Ischemic heart disease	12,427	36.4%
Lung cancer	675	2.0%
Obesity	5,057	14.8%

**Table 11. Baseline Characteristics for New Users of Enzalutamide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	2,237	6.5%
Overweight	2,567	7.5%
Prostate cancer	34,058	99.6%
Rheumatoid arthritis/osteoarthritis	7,375	21.6%
Smoking	10,221	29.9%
Stroke/transient ischemic attack	1,581	4.6%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1m. Baseline Characteristics for New Users of Florbetapir F 18 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	6,917	100%
Number of unique patients	6,917	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	76.4	6.5
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	6,842	98.9%
Sex		
Female	3,586	51.8%
Male	*****	*****
Other	*****	*****
Year		
2012	0	0.0%
2013	75	1.1%
2014	38	0.5%
2015	30	0.4%
2016	2,142	31.0%
2017	4,580	66.2%
2018	52	0.8%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acute myocardial infarction	47	0.7%
Acquired hypothyroidism	1,594	23.0%
Alcohol abuse or dependence	211	3.1%
Alzheimer's disease and related conditions	4,353	62.9%
Anemia	2,418	35.0%
Asthma	473	6.8%
Atrial fibrillation	1,017	14.7%
Benign prostatic hyperplasia	1,001	14.5%
Breast cancer	294	4.3%
Chronic kidney disease	1,429	20.7%
Chronic obstructive pulmonary disorder and bronchiectasis	797	11.5%
Colorectal cancer	82	1.2%
Depression	2,605	37.7%
Diabetes	1,765	25.5%
Drug abuse or dependence	74	1.1%
Endometrial cancer	*****	*****
Glaucoma	1,262	18.2%
Heart failure	738	10.7%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	734	10.6%
Hyperlipidemia	4,399	63.6%
Hypertension	4,755	68.7%
Ischemic heart disease	2,379	34.4%
Lung cancer	63	0.9%
Obesity	969	14.0%

**Table 1m. Baseline Characteristics for New Users of Florbetapir F 18 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	689	10.0%
Overweight	726	10.5%
Prostate cancer	419	6.1%
Rheumatoid arthritis/osteoarthritis	2,118	30.6%
Smoking	1,419	20.5%
Stroke/transient ischemic attack	916	13.2%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1n. Baseline Characteristics for New Users of Glucarpidase in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	*****	*****
Number of unique patients	*****	*****
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	42	13.7
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	*****	*****
Sex		
Female	*****	*****
Male	*****	*****
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	*****	*****
2016	*****	*****
2017	0	0.0%
2018	0	0.0%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	0	0.0%
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	0	0.0%
Alzheimer's disease and related conditions	0	0.0%
Anemia	*****	*****
Asthma	0	0.0%
Atrial fibrillation	0	0.0%
Benign prostatic hyperplasia	0	0.0%
Breast cancer	0	0.0%
Chronic kidney disease	*****	*****
Chronic obstructive pulmonary disorder and bronchiectasis	0	0.0%
Colorectal cancer	0	0.0%
Depression	0	0.0%
Diabetes	*****	*****
Drug abuse or dependence	0	0.0%
Endometrial cancer	0	0.0%
Glaucoma	0	0.0%
Heart failure	*****	*****
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	0	0.0%
Hyperlipidemia	*****	*****
Hypertension	*****	*****
Ischemic heart disease	0	0.0%
Lung cancer	0	0.0%
Obesity	*****	*****
Osteoporosis	0	0.0%

**Table 1n. Baseline Characteristics for New Users of Glucarpidase in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	*****	*****
Prostate cancer	0	0.0%
Rheumatoid arthritis/osteoarthritis	0	0.0%
Smoking	*****	*****
Stroke/transient ischemic attack	*****	*****

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1o. Baseline Characteristics for New Users of Ingenol Mebutate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	73,998	100%
Number of unique patients	73,998	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	64.6	8.8
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	102	0.1%
19-64	35,563	48.1%
65+	38,333	51.8%
Sex		
Female	33,812	45.7%
Male	40,186	54.3%
Other	0	0.0%
Year		
2012	7,755	10.5%
2013	12,029	16.3%
2014	14,691	19.9%
2015	14,061	19.0%
2016	11,226	15.2%
2017	10,484	14.2%
2018	3,752	5.1%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	7,859	10.6%
Acute myocardial infarction	198	0.3%
Alcohol abuse or dependence	614	0.8%
Alzheimer's disease and related conditions	1,002	1.4%
Anemia	9,811	13.3%
Asthma	2,658	3.6%
Atrial fibrillation	4,662	6.3%
Benign prostatic hyperplasia	5,640	7.6%
Breast cancer	1,731	2.3%
Chronic kidney disease	4,825	6.5%
Chronic obstructive pulmonary disorder and bronchiectasis	3,023	4.1%
Colorectal cancer	487	0.7%
Depression	7,389	10.0%
Diabetes	8,522	11.5%
Drug abuse or dependence	171	0.2%
Endometrial cancer	62	0.1%
Glaucoma	8,087	10.9%
Heart failure	2,693	3.6%
History of cardiac arrest	21	0.0%
History of coronary angioplasty or bypass	3,075	4.2%
Hyperlipidemia	29,191	39.4%
Hypertension	28,686	38.8%
Ischemic heart disease	11,860	16.0%
Lung cancer	320	0.4%
Obesity	5,945	8.0%

**Table 1o. Baseline Characteristics for New Users of Ingenol Mebutate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	2,752	3.7%
Overweight	3,735	5.0%
Prostate cancer	2,589	3.5%
Rheumatoid arthritis/osteoarthritis	12,542	16.9%
Smoking	6,037	8.2%
Stroke/transient ischemic attack	1,250	1.7%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1p. Baseline Characteristics for New Users of Ivacaftor in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	615	100%
Number of unique patients	615	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	32.7	17.7
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	186	30.2%
19-64	378	61.5%
65+	51	8.3%
Sex		
Female	329	53.5%
Male	286	46.5%
Other	0	0.0%
Year		
2012	137	22.3%
2013	22	3.6%
2014	40	6.5%
2015	115	18.7%
2016	37	6.0%
2017	216	35.1%
2018	48	7.8%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	32	5.2%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	*****	*****
Anemia	80	13.0%
Asthma	157	25.5%
Atrial fibrillation	*****	*****
Benign prostatic hyperplasia	*****	*****
Breast cancer	*****	*****
Chronic kidney disease	59	9.6%
Chronic obstructive pulmonary disorder and bronchiectasis	239	38.9%
Colorectal cancer	*****	*****
Depression	139	22.6%
Diabetes	140	22.8%
Drug abuse or dependence	11	1.8%
Endometrial cancer	0	0.0%
Glaucoma	16	2.6%
Heart failure	41	6.7%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	*****	*****
Hyperlipidemia	36	5.9%
Hypertension	76	12.4%
Ischemic heart disease	18	2.9%
Lung cancer	*****	*****
Obesity	43	7.0%

**Table 1p. Baseline Characteristics for New Users of Ivacaftor in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	39	6.3%
Overweight	23	3.7%
Prostate cancer	*****	*****
Rheumatoid arthritis/osteoarthritis	45	7.3%
Smoking	54	8.8%
Stroke/transient ischemic attack	*****	*****

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1q. Baseline Characteristics for New Users of Linaclotide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	529,798	100%
Number of unique patients	529,798	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	64.8	14.6
<b>Age (years)</b>	<b>Number</b>	<b>Percent</b>
0-18	1,974	0.4%
19-64	230,861	43.6%
65+	296,963	56.1%
<b>Sex</b>		
Female	385,377	72.7%
Male	*****	*****
Other	*****	*****
<b>Year</b>		
2012	*****	*****
2013	46,516	8.8%
2014	95,555	18.0%
2015	105,617	19.9%
2016	122,276	23.1%
2017	124,044	23.4%
2018	35,572	6.7%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	115,530	21.8%
Acute myocardial infarction	5,174	1.0%
Alcohol abuse or dependence	9,223	1.7%
Alzheimer's disease and related conditions	50,504	9.5%
Anemia	180,615	34.1%
Asthma	58,153	11.0%
Atrial fibrillation	50,467	9.5%
Benign prostatic hyperplasia	40,537	7.7%
Breast cancer	17,937	3.4%
Chronic kidney disease	107,369	20.3%
Chronic obstructive pulmonary disorder and bronchiectasis	99,316	18.7%
Colorectal cancer	6,591	1.2%
Depression	189,712	35.8%
Diabetes	163,676	30.9%
Drug abuse or dependence	11,353	2.1%
Endometrial cancer	1,602	0.3%
Glaucoma	69,663	13.1%
Heart failure	80,737	15.2%
History of cardiac arrest	733	0.1%
History of coronary angioplasty or bypass	42,365	8.0%
Hyperlipidemia	270,543	51.1%
Hypertension	331,972	62.7%
Ischemic heart disease	147,563	27.9%
Lung cancer	6,023	1.1%
Obesity	118,010	22.3%

**Table 1q. Baseline Characteristics for New Users of Linaclotide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	48,397	9.1%
Overweight	42,268	8.0%
Prostate cancer	11,683	2.2%
Rheumatoid arthritis/osteoarthritis	187,979	35.5%
Smoking	134,946	25.5%
Stroke/transient ischemic attack	30,853	5.8%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1r. Baseline Characteristics for New Users of Lomitapide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	537	100%
Number of unique patients	537	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	62.8	10.4
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	273	50.8%
Sex		
Female	366	68.2%
Male	171	31.8%
Other	0	0.0%
Year		
2012	0	0.0%
2013	165	30.7%
2014	203	37.8%
2015	151	28.1%
2016	*****	*****
2017	*****	*****
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	113	21.0%
Acute myocardial infarction	21	3.9%
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	*****	*****
Anemia	132	24.6%
Asthma	34	6.3%
Atrial fibrillation	35	6.5%
Benign prostatic hyperplasia	15	2.8%
Breast cancer	15	2.8%
Chronic kidney disease	69	12.8%
Chronic obstructive pulmonary disorder and bronchiectasis	52	9.7%
Colorectal cancer	*****	*****
Depression	125	23.3%
Diabetes	194	36.1%
Drug abuse or dependence	*****	*****
Endometrial cancer	*****	*****
Glaucoma	49	9.1%
Heart failure	90	16.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	167	31.1%
Hyperlipidemia	518	96.5%
Hypertension	412	76.7%
Ischemic heart disease	378	70.4%
Lung cancer	*****	*****
Obesity	102	19.0%

**Table 1r. Baseline Characteristics for New Users of Lomitapide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	23	4.3%
Overweight	34	6.3%
Prostate cancer	*****	*****
Rheumatoid arthritis/osteoarthritis	145	27.0%
Smoking	102	19.0%
Stroke/transient ischemic attack	35	6.5%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 1s. Baseline Characteristics for New Users of Lorcaserin Hydrochloride in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	15,920	100%
Number of unique patients	15,920	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	49.4	11.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	44	0.3%
19-64	14,489	91.0%
65+	1,387	8.7%
Sex		
Female	12,627	79.3%
Male	*****	*****
Other	*****	*****
Year		
2012	0	0.0%
2013	*****	*****
2014	3,946	24.8%
2015	4,061	25.5%
2016	2,795	17.6%
2017	3,066	19.3%
2018	1,251	7.9%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	2,602	16.3%
Acute myocardial infarction	19	0.1%
Alcohol abuse or dependence	147	0.9%
Alzheimer's disease and related conditions	33	0.2%
Anemia	1,836	11.5%
Asthma	1,040	6.5%
Atrial fibrillation	209	1.3%
Benign prostatic hyperplasia	175	1.1%
Breast cancer	198	1.2%
Chronic kidney disease	801	5.0%
Chronic obstructive pulmonary disorder and bronchiectasis	443	2.8%
Colorectal cancer	34	0.2%
Depression	3,378	21.2%
Diabetes	2,704	17.0%
Drug abuse or dependence	101	0.6%
Endometrial cancer	*****	*****
Glaucoma	698	4.4%
Heart failure	289	1.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	174	1.1%
Hyperlipidemia	4,984	31.3%
Hypertension	6,370	40.0%
Ischemic heart disease	901	5.7%
Lung cancer	14	0.1%
Obesity	10,561	66.3%

**Table 1s. Baseline Characteristics for New Users of Lorcaserin Hydrochloride in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	149	0.9%
Overweight	1,425	9.0%
Prostate cancer	59	0.4%
Rheumatoid arthritis/osteoarthritis	2,268	14.2%
Smoking	1,558	9.8%
Stroke/transient ischemic attack	80	0.5%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1t. Baseline Characteristics for New Users of Lucinactant in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	0	100%
Number of unique patients	0	100%
Demographics <sup>1</sup>	Mean	Standard Deviation
Mean age (years)	0	0
Age (years)	Number	Percent
0-18	0	0.0%
19-64	0	0.0%
65+	0	0.0%
Sex		
Female	0	0.0%
Male	0	0.0%
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	0	0.0%
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%
2019	0	0.0%
Recorded History of Characteristics in the 365 Days prior to Index:	Number	Percent
Acquired hypothyroidism	0	0.0%
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	0	0.0%
Alzheimer's disease and related conditions	0	0.0%
Anemia	0	0.0%
Asthma	0	0.0%
Atrial fibrillation	0	0.0%
Benign prostatic hyperplasia	0	0.0%
Breast cancer	0	0.0%
Chronic kidney disease	0	0.0%
Chronic obstructive pulmonary disorder and bronchiectasis	0	0.0%
Colorectal cancer	0	0.0%
Depression	0	0.0%
Diabetes	0	0.0%
Drug abuse or dependence	0	0.0%
Endometrial cancer	0	0.0%
Glaucoma	0	0.0%
Heart failure	0	0.0%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	0	0.0%
Hyperlipidemia	0	0.0%
Hypertension	0	0.0%
Ischemic heart disease	0	0.0%
Lung cancer	0	0.0%
Obesity	0	0.0%

**Table 1t. Baseline Characteristics for New Users of Lucinactant in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	0	0.0%
Overweight	0	0.0%
Prostate cancer	0	0.0%
Rheumatoid arthritis/osteoarthritis	0	0.0%
Smoking	0	0.0%
Stroke/transient ischemic attack	0	0.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1u. Baseline Characteristics for New Users of Mirabegron in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	508,105	100%
Number of unique patients	508,105	100%
Demographics <sup>1</sup>	Mean	Standard Deviation
Mean age (years)	74.2	11.6
Age (years)	Number	Percent
0-18	340	0.1%
19-64	85,021	16.7%
65+	422,744	83.2%
Sex		
Female	347,091	68.3%
Male	*****	*****
Other	*****	*****
Year		
2012	*****	*****
2013	43,167	8.5%
2014	77,300	15.2%
2015	91,680	18.0%
2016	113,940	22.4%
2017	139,057	27.4%
2018	41,476	8.2%
2019	*****	*****
Recorded History of Characteristics in the 365 Days prior to Index:	Number	Percent
Acquired hypothyroidism	119,327	23.5%
Acute myocardial infarction	4,023	0.8%
Alcohol abuse or dependence	6,744	1.3%
Alzheimer's disease and related conditions	69,485	13.7%
Anemia	159,357	31.4%
Asthma	44,038	8.7%
Atrial fibrillation	66,550	13.1%
Benign prostatic hyperplasia	81,416	16.0%
Breast cancer	23,631	4.7%
Chronic kidney disease	107,071	21.1%
Chronic obstructive pulmonary disorder and bronchiectasis	77,499	15.3%
Colorectal cancer	7,125	1.4%
Depression	156,458	30.8%
Diabetes	156,232	30.7%
Drug abuse or dependence	5,336	1.1%
Endometrial cancer	2,358	0.5%
Glaucoma	88,682	17.5%
Heart failure	70,856	13.9%
History of cardiac arrest	560	0.1%
History of coronary angioplasty or bypass	42,299	8.3%
Hyperlipidemia	291,539	57.4%
Hypertension	359,047	70.7%
Ischemic heart disease	148,110	29.1%
Lung cancer	4,871	1.0%
Obesity	111,970	22.0%

**Table 1u. Baseline Characteristics for New Users of Mirabegron in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	56,175	11.1%
Overweight	40,091	7.9%
Prostate cancer	33,903	6.7%
Rheumatoid arthritis/osteoarthritis	197,218	38.8%
Smoking	104,675	20.6%
Stroke/transient ischemic attack	37,074	7.3%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1v. Baseline Characteristics for New Users of Sodium Picosulfate/Magnesium Oxide/Citric Acid in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	279,416	100%
Number of unique patients	279,416	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	58.4	9.7
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	775	0.3%
19-64	198,609	71.1%
65+	80,032	28.6%
Sex		
Female	163,173	58.4%
Male	*****	*****
Other	*****	*****
Year		
2012	*****	*****
2013	30,565	10.9%
2014	54,567	19.5%
2015	59,372	21.2%
2016	61,475	22.0%
2017	54,020	19.3%
2018	18,239	6.5%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	31,383	11.2%
Acute myocardial infarction	385	0.1%
Alcohol abuse or dependence	2,995	1.1%
Alzheimer's disease and related conditions	1,946	0.7%
Anemia	41,107	14.7%
Asthma	12,202	4.4%
Atrial fibrillation	8,023	2.9%
Benign prostatic hyperplasia	11,584	4.1%
Breast cancer	8,330	3.0%
Chronic kidney disease	14,605	5.2%
Chronic obstructive pulmonary disorder and bronchiectasis	9,972	3.6%
Colorectal cancer	4,208	1.5%
Depression	33,700	12.1%
Diabetes	35,074	12.6%
Drug abuse or dependence	1,251	0.4%
Endometrial cancer	506	0.2%
Glaucoma	24,380	8.7%
Heart failure	6,341	2.3%
History of cardiac arrest	66	0.0%
History of coronary angioplasty or bypass	6,045	2.2%
Hyperlipidemia	95,453	34.2%
Hypertension	97,417	34.9%
Ischemic heart disease	27,158	9.7%
Lung cancer	884	0.3%
Obesity	37,839	13.5%

**Table 1v. Baseline Characteristics for New Users of Sodium Picosulfate/Magnesium Oxide/Citric Acid in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	9,425	3.4%
Overweight	16,738	6.0%
Prostate cancer	4,588	1.6%
Rheumatoid arthritis/osteoarthritis	37,120	13.3%
Smoking	26,769	9.6%
Stroke/transient ischemic attack	3,138	1.1%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1w. Baseline Characteristics for New Users of Ocriplasmin in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	3,337	100%
Number of unique patients	3,337	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	74.1	7.8
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	3,028	90.7%
Sex		
Female	2,224	66.6%
Male	1,113	33.4%
Other	0	0.0%
Year		
2012	0	0.0%
2013	105	3.1%
2014	1,298	38.9%
2015	930	27.9%
2016	530	15.9%
2017	380	11.4%
2018	94	2.8%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	570	17.1%
Acute myocardial infarction	21	0.6%
Alcohol abuse or dependence	32	1.0%
Alzheimer's disease and related conditions	137	4.1%
Anemia	791	23.7%
Asthma	187	5.6%
Atrial fibrillation	348	10.4%
Benign prostatic hyperplasia	216	6.5%
Breast cancer	163	4.9%
Chronic kidney disease	578	17.3%
Chronic obstructive pulmonary disorder and bronchiectasis	434	13.0%
Colorectal cancer	36	1.1%
Depression	468	14.0%
Diabetes	1,137	34.1%
Drug abuse or dependence	*****	*****
Endometrial cancer	*****	*****
Glaucoma	749	22.4%
Heart failure	351	10.5%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	299	9.0%
Hyperlipidemia	1,916	57.4%
Hypertension	2,255	67.6%
Ischemic heart disease	905	27.1%
Lung cancer	38	1.1%
Obesity	495	14.8%

**Table 1w. Baseline Characteristics for New Users of Ocriplasmin in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	263	7.9%
Overweight	211	6.3%
Prostate cancer	113	3.4%
Rheumatoid arthritis/osteoarthritis	852	25.5%
Smoking	537	16.1%
Stroke/transient ischemic attack	146	4.4%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1x. Baseline Characteristics for New Users of Omacetaxine Mepesuccinate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	170	100%
Number of unique patients	170	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	65.3	13.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	67	39.4%
65+	103	60.6%
Sex		
Female	82	48.2%
Male	88	51.8%
Other	0	0.0%
Year		
2012	*****	*****
2013	*****	*****
2014	40	23.5%
2015	39	22.9%
2016	26	15.3%
2017	32	18.8%
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	29	17.1%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	*****	*****
Anemia	118	69.4%
Asthma	23	13.5%
Atrial fibrillation	30	17.6%
Benign prostatic hyperplasia	15	8.8%
Breast cancer	*****	*****
Endometrial cancer	*****	*****
Colorectal cancer	*****	*****
Drug abuse or dependence	*****	*****
Glaucoma	18	10.6%
Chronic obstructive pulmonary disorder and bronchiectasis	38	22.4%
Depression	45	26.5%
Heart failure	51	30.0%
Diabetes	63	37.1%
Chronic kidney disease	72	42.4%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	28	16.5%
Hyperlipidemia	85	50.0%
Hypertension	110	64.7%
Ischemic heart disease	68	40.0%
Lung cancer	0	0.0%
Obesity	39	22.9%

**Table 1x. Baseline Characteristics for New Users of Omacetaxine Mepesuccinate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	11	6.5%
Overweight	13	7.6%
Prostate cancer	*****	*****
Rheumatoid arthritis/osteoarthritis	44	25.9%
Smoking	65	38.2%
Stroke/transient ischemic attack	*****	*****

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*\*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 1y. Baseline Characteristics for New Users of Pasireotide Diaspartate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	103	100%
Number of unique patients	103	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	55.4	13.6
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	68	66.0%
65+	*****	*****
Sex		
Female	70	68.0%
Male	33	32.0%
Other	0	0.0%
Year		
2012	0	0.0%
2013	21	20.4%
2014	21	20.4%
2015	15	14.6%
2016	29	28.2%
2017	*****	*****
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	41	39.8%
Acute myocardial infarction	0	0.0%
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	*****	*****
Anemia	36	35.0%
Asthma	*****	*****
Atrial fibrillation	*****	*****
Benign prostatic hyperplasia	*****	*****
Breast cancer	*****	*****
Chronic kidney disease	28	27.2%
Chronic obstructive pulmonary disorder and bronchiectasis	12	11.7%
Colorectal cancer	*****	*****
Depression	27	26.2%
Diabetes	56	54.4%
Drug abuse or dependence	*****	*****
Endometrial cancer	0	0.0%
Glaucoma	11	10.7%
Heart failure	17	16.5%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	*****	*****
Hyperlipidemia	56	54.4%
Hypertension	72	69.9%
Ischemic heart disease	25	24.3%
Lung cancer	*****	*****
Obesity	39	37.9%

**Table 1y. Baseline Characteristics for New Users of Pasireotide Diaspartate in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	14	13.6%
Overweight	*****	*****
Prostate cancer	*****	*****
Rheumatoid arthritis/osteoarthritis	15	14.6%
Smoking	23	22.3%
Stroke/transient ischemic attack	*****	*****

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*\*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 1z. Baseline Characteristics for New Users of Peginesatide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	13,036	100%
Number of unique patients	13,036	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	62	14.8
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	7,145	54.8%
65+	*****	*****
Sex		
Female	6,649	51.0%
Male	6,387	49.0%
Other	0	0.0%
Year		
2012	7,646	58.7%
2013	5,327	40.9%
2014	*****	*****
2015	21	0.2%
2016	19	0.1%
2017	*****	*****
2018	0	0.0%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	2,289	17.6%
Acute myocardial infarction	652	5.0%
Alcohol abuse or dependence	140	1.1%
Alzheimer's disease and related conditions	1,419	10.9%
Anemia	12,932	99.2%
Asthma	1,137	8.7%
Atrial fibrillation	2,079	15.9%
Benign prostatic hyperplasia	678	5.2%
Breast cancer	231	1.8%
Chronic kidney disease	12,953	99.4%
Chronic obstructive pulmonary disorder and bronchiectasis	2,951	22.6%
Colorectal cancer	186	1.4%
Depression	3,073	23.6%
Diabetes	8,874	68.1%
Drug abuse or dependence	13	0.1%
Endometrial cancer	37	0.3%
Glaucoma	1,596	12.2%
Heart failure	6,546	50.2%
History of cardiac arrest	89	0.7%
History of coronary angioplasty or bypass	2,526	19.4%
Hyperlipidemia	7,953	61.0%
Hypertension	11,651	89.4%
Ischemic heart disease	6,822	52.3%
Lung cancer	78	0.6%
Obesity	2,869	22.0%

**Table 1z. Baseline Characteristics for New Users of Peginesatide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	498	3.8%
Overweight	375	2.9%
Prostate cancer	298	2.3%
Rheumatoid arthritis/osteoarthritis	2,498	19.2%
Smoking	3,597	27.6%
Stroke/transient ischemic attack	1,517	11.6%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1aa. Baseline Characteristics for New Users of Perampanel in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	5,701	100%
Number of unique patients	5,701	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	42.6	15.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	523	9.2%
19-64	4,620	81.0%
65+	558	9.8%
Sex		
Female	3,011	52.8%
Male	2,690	47.2%
Other	0	0.0%
Year		
2012	0	0.0%
2013	0	0.0%
2014	1,211	21.2%
2015	1,310	23.0%
2016	1,416	24.8%
2017	1,365	23.9%
2018	399	7.0%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	818	14.3%
Acute myocardial infarction	17	0.3%
Alcohol abuse or dependence	84	1.5%
Alzheimer's disease and related conditions	373	6.5%
Anemia	1,151	20.2%
Asthma	440	7.7%
Atrial fibrillation	105	1.8%
Benign prostatic hyperplasia	138	2.4%
Breast cancer	59	1.0%
Chronic kidney disease	463	8.1%
Chronic obstructive pulmonary disorder and bronchiectasis	358	6.3%
Colorectal cancer	23	0.4%
Depression	1,521	26.7%
Diabetes	549	9.6%
Drug abuse or dependence	132	2.3%
Endometrial cancer	13	0.2%
Glaucoma	341	6.0%
Heart failure	277	4.9%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	89	1.6%
Hyperlipidemia	1,227	21.5%
Hypertension	1,427	25.0%
Ischemic heart disease	403	7.1%
Lung cancer	18	0.3%
Obesity	930	16.3%
Osteoporosis	398	7.0%

**Table 1aa. Baseline Characteristics for New Users of Perampanel in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	316	5.5%
Prostate cancer	*****	*****
Rheumatoid arthritis/osteoarthritis	582	10.2%
Smoking	888	15.6%
Stroke/transient ischemic attack	376	6.6%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*\*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 1ab. Baseline Characteristics for New Users of Pertuzumab in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	19,628	100%
Number of unique patients	19,628	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	62.6	10.5
<b>Age (years)</b>	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	9,578	48.8%
65+	10,050	51.2%
<b>Sex</b>		
Female	19,351	98.6%
Male	277	1.4%
Other	0	0.0%
<b>Year</b>		
2012	*****	*****
2013	697	3.6%
2014	3,781	19.3%
2015	4,270	21.8%
2016	4,521	23.0%
2017	4,550	23.2%
2018	1,606	8.2%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	3,224	16.4%
Acute myocardial infarction	77	0.4%
Alcohol abuse or dependence	209	1.1%
Alzheimer's disease and related conditions	364	1.9%
Anemia	5,066	25.8%
Asthma	1,323	6.7%
Atrial fibrillation	908	4.6%
Benign prostatic hyperplasia	49	0.2%
Breast cancer	19,382	98.7%
Chronic kidney disease	2,222	11.3%
Chronic obstructive pulmonary disorder and bronchiectasis	1,641	8.4%
Colorectal cancer	235	1.2%
Depression	4,102	20.9%
Diabetes	3,850	19.6%
Drug abuse or dependence	169	0.9%
Endometrial cancer	143	0.7%
Glaucoma	1,755	8.9%
Heart failure	1,501	7.6%
History of cardiac arrest	11	0.1%
History of coronary angioplasty or bypass	574	2.9%
Hyperlipidemia	7,006	35.7%
Hypertension	9,742	49.6%
Ischemic heart disease	2,443	12.4%
Lung cancer	564	2.9%
Obesity	4,014	20.5%

**Table 1ab. Baseline Characteristics for New Users of Pertuzumab in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	1,196	6.1%
Overweight	1,401	7.1%
Prostate cancer	30	0.2%
Rheumatoid arthritis/osteoarthritis	3,661	18.7%
Smoking	4,900	25.0%
Stroke/transient ischemic attack	455	2.3%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1a. Baseline Characteristics for New Users of Ponatinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

Characteristic	Number	Percent
Number of episodes	928	100%
Number of unique patients	928	100%
Demographics <sup>1</sup>	Mean	Standard Deviation
Mean age (years)	60.4	14.7
Age (years)	Number	Percent
0-18	*****	*****
19-64	493	53.1%
65+	*****	*****
Sex		
Female	451	48.6%
Male	477	51.4%
Other	0	0.0%
Year		
2012	0	0.0%
2013	312	33.6%
2014	104	11.2%
2015	125	13.5%
2016	165	17.8%
2017	159	17.1%
2018	63	6.8%
2019	0	0.0%
Recorded History of Characteristics in the 365 Days prior to Index:	Number	Percent
Acquired hypothyroidism	158	17.0%
Acute myocardial infarction	20	2.2%
Alcohol abuse or dependence	20	2.2%
Alzheimer's disease and related conditions	35	3.8%
Anemia	672	72.4%
Asthma	96	10.3%
Atrial fibrillation	98	10.6%
Benign prostatic hyperplasia	67	7.2%
Breast cancer	35	3.8%
Chronic kidney disease	323	34.8%
Chronic obstructive pulmonary disorder and bronchiectasis	166	17.9%
Colorectal cancer	21	2.3%
Depression	279	30.1%
Diabetes	268	28.9%
Drug abuse or dependence	36	3.9%
Endometrial cancer	*****	*****
Glaucoma	85	9.2%
Heart failure	209	22.5%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	87	9.4%
Hyperlipidemia	360	38.8%
Hypertension	567	61.1%
Ischemic heart disease	238	25.6%
Lung cancer	*****	*****
Obesity	194	20.9%

**Table 1a. Baseline Characteristics for New Users of Ponatinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	48	5.2%
Overweight	49	5.3%
Prostate cancer	30	3.2%
Rheumatoid arthritis/osteoarthritis	183	19.7%
Smoking	322	34.7%
Stroke/transient ischemic attack	56	6.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1ad. Baseline Characteristics for New Users of Regorafenib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	9,717	100%
Number of unique patients	9,717	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	66.9	10.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	6,160	63.4%
Sex		
Female	4,294	44.2%
Male	5,423	55.8%
Other	0	0.0%
Year		
2012	687	7.1%
2013	2,145	22.1%
2014	1,863	19.2%
2015	1,821	18.7%
2016	1,281	13.2%
2017	1,514	15.6%
2018	406	4.2%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	1,183	12.2%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	235	2.4%
Alzheimer's disease and related conditions	228	2.3%
Anemia	5,597	57.6%
Asthma	520	5.4%
Atrial fibrillation	838	8.6%
Benign prostatic hyperplasia	887	9.1%
Breast cancer	339	3.5%
Chronic kidney disease	2,619	27.0%
Chronic obstructive pulmonary disorder and bronchiectasis	1,212	12.5%
Colorectal cancer	8,562	88.1%
Depression	1,717	17.7%
Diabetes	2,624	27.0%
Drug abuse or dependence	115	1.2%
Endometrial cancer	38	0.4%
Glaucoma	850	8.7%
Heart failure	954	9.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	612	6.3%
Hyperlipidemia	3,450	35.5%
Hypertension	6,241	64.2%
Ischemic heart disease	2,251	23.2%
Lung cancer	901	9.3%
Obesity	1,265	13.0%

**Table 1ad. Baseline Characteristics for New Users of Regorafenib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	330	3.4%
Overweight	579	6.0%
Prostate cancer	365	3.8%
Rheumatoid arthritis/osteoarthritis	1,382	14.2%
Smoking	3,059	31.5%
Stroke/transient ischemic attack	294	3.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1ae. Baseline Characteristics for New Users of Tafluprost in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	27,736	100%
Number of unique patients	27,736	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	74.6	10.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	23	0.1%
19-64	4,555	16.4%
65+	23,158	83.5%
Sex		
Female	19,041	68.7%
Male	8,695	31.3%
Other	0	0.0%
Year		
2012	3,542	12.8%
2013	6,159	22.2%
2014	4,503	16.2%
2015	4,047	14.6%
2016	3,969	14.3%
2017	3,647	13.1%
2018	1,869	6.7%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	5,370	19.4%
Acute myocardial infarction	151	0.5%
Alcohol abuse or dependence	170	0.6%
Alzheimer's disease and related conditions	1,340	4.8%
Anemia	6,059	21.8%
Asthma	1,821	6.6%
Atrial fibrillation	2,877	10.4%
Benign prostatic hyperplasia	1,755	6.3%
Breast cancer	1,262	4.6%
Chronic kidney disease	3,410	12.3%
Chronic obstructive pulmonary disorder and bronchiectasis	2,469	8.9%
Colorectal cancer	308	1.1%
Depression	3,798	13.7%
Diabetes	6,285	22.7%
Drug abuse or dependence	65	0.2%
Endometrial cancer	73	0.3%
Glaucoma	26,990	97.3%
Heart failure	2,416	8.7%
History of cardiac arrest	31	0.1%
History of coronary angioplasty or bypass	1,407	5.1%
Hyperlipidemia	13,868	50.0%
Hypertension	16,423	59.2%
Ischemic heart disease	5,769	20.8%
Lung cancer	203	0.7%
Obesity	2,689	9.7%

**Table 1ae. Baseline Characteristics for New Users of Tafluprost in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	2,871	10.4%
Overweight	1,216	4.4%
Prostate cancer	776	2.8%
Rheumatoid arthritis/osteoarthritis	6,768	24.4%
Smoking	2,725	9.8%
Stroke/transient ischemic attack	1,047	3.8%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Table 1af. Baseline Characteristics for New Users of Taliglucerase Alfa in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	201	100%
Number of unique patients	201	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	70.3	12.1
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	151	75.1%
Sex		
Female	113	56.2%
Male	88	43.8%
Other	0	0.0%
Year		
2012	*****	*****
2013	*****	*****
2014	23	11.4%
2015	21	10.4%
2016	63	31.3%
2017	78	38.8%
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	35	17.4%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	*****	*****
Alzheimer's disease and related conditions	14	7.0%
Anemia	64	31.8%
Asthma	14	7.0%
Atrial fibrillation	32	15.9%
Benign prostatic hyperplasia	13	6.5%
Breast cancer	*****	*****
Chronic kidney disease	77	38.3%
Chronic obstructive pulmonary disorder and bronchiectasis	43	21.4%
Colorectal cancer	*****	*****
Depression	57	28.4%
Diabetes	75	37.3%
Drug abuse or dependence	*****	*****
Endometrial cancer	0	0.0%
Glaucoma	31	15.4%
Heart failure	45	22.4%
History of cardiac arrest	0	0.0%
History of coronary angioplasty or bypass	41	20.4%
Hyperlipidemia	126	62.7%
Hypertension	162	80.6%
Ischemic heart disease	98	48.8%
Lung cancer	*****	*****
Obesity	59	29.4%

**Table 1af. Baseline Characteristics for New Users of Taliglucerase Alfa in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	12	6.0%
Overweight	25	12.4%
Prostate cancer	12	6.0%
Rheumatoid arthritis/osteoarthritis	69	34.3%
Smoking	75	37.3%
Stroke/transient ischemic attack	13	6.5%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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**Table 1ag. Baseline Characteristics for New Users of Tbo-Filgrastim in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	27,789	100%
Number of unique patients	27,789	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	68.3	11
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	36	0.1%
19-64	7,830	28.2%
65+	19,923	71.7%
Sex		
Female	15,820	56.9%
Male	*****	*****
Other	*****	*****
Year		
2012	0	0.0%
2013	0	0.0%
2014	3,847	13.8%
2015	6,606	23.8%
2016	7,541	27.1%
2017	7,325	26.4%
2018	2,470	8.9%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	5,226	18.8%
Acute myocardial infarction	376	1.4%
Alcohol abuse or dependence	945	3.4%
Alzheimer's disease and related conditions	1,088	3.9%
Anemia	18,811	67.7%
Asthma	2,470	8.9%
Atrial fibrillation	3,737	13.4%
Benign prostatic hyperplasia	2,884	10.4%
Breast cancer	4,746	17.1%
Chronic kidney disease	9,822	35.3%
Chronic obstructive pulmonary disorder and bronchiectasis	6,464	23.3%
Colorectal cancer	2,805	10.1%
Depression	6,492	23.4%
Diabetes	8,005	28.8%
Drug abuse or dependence	561	2.0%
Endometrial cancer	762	2.7%
Glaucoma	3,109	11.2%
Heart failure	4,694	16.9%
History of cardiac arrest	68	0.2%
History of coronary angioplasty or bypass	2,879	10.4%
Hyperlipidemia	14,427	51.9%
Hypertension	19,257	69.3%
Ischemic heart disease	8,361	30.1%
Lung cancer	4,786	17.2%
Obesity	6,250	22.5%

**Table 1ag. Baseline Characteristics for New Users of Tbo-Filgrastim in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	2,140	7.7%
Overweight	2,689	9.7%
Prostate cancer	1,638	5.9%
Rheumatoid arthritis/osteoarthritis	6,731	24.2%
Smoking	12,425	44.7%
Stroke/transient ischemic attack	1,346	4.8%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1ah. Baseline Characteristics for New Users of Teduglutide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	854	100%
Number of unique patients	854	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	59.3	13.8
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	507	59.4%
65+	*****	*****
Sex		
Female	614	71.9%
Male	240	28.1%
Other	0	0.0%
Year		
2012	0	0.0%
2013	107	12.5%
2014	99	11.6%
2015	127	14.9%
2016	168	19.7%
2017	280	32.8%
2018	73	8.5%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	187	21.9%
Acute myocardial infarction	21	2.5%
Alcohol abuse or dependence	32	3.7%
Alzheimer's disease and related conditions	58	6.8%
Anemia	700	82.0%
Asthma	117	13.7%
Atrial fibrillation	109	12.8%
Benign prostatic hyperplasia	44	5.2%
Breast cancer	28	3.3%
Chronic kidney disease	531	62.2%
Chronic obstructive pulmonary disorder and bronchiectasis	215	25.2%
Colorectal cancer	71	8.3%
Depression	442	51.8%
Diabetes	207	24.2%
Drug abuse or dependence	49	5.7%
Endometrial cancer	20	2.3%
Glaucoma	71	8.3%
Heart failure	180	21.1%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	51	6.0%
Hyperlipidemia	280	32.8%
Hypertension	510	59.7%
Ischemic heart disease	218	25.5%
Lung cancer	*****	*****
Obesity	217	25.4%

**Table 1ah. Baseline Characteristics for New Users of Teduglutide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	187	21.9%
Overweight	97	11.4%
Prostate cancer	12	1.4%
Rheumatoid arthritis/osteoarthritis	273	32.0%
Smoking	380	44.5%
Stroke/transient ischemic attack	53	6.2%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1a. Baseline Characteristics for New Users of Teriflunomide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	13,918	100%
Number of unique patients	13,918	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	53.7	10.9
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	11,487	82.5%
65+	*****	*****
Sex		
Female	10,916	78.4%
Male	*****	*****
Other	*****	*****
Year		
2012	285	2.0%
2013	2,303	16.5%
2014	2,072	14.9%
2015	2,719	19.5%
2016	3,124	22.4%
2017	2,625	18.9%
2018	790	5.7%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	1,953	14.0%
Acute myocardial infarction	49	0.4%
Alcohol abuse or dependence	151	1.1%
Alzheimer's disease and related conditions	526	3.8%
Anemia	2,824	20.3%
Asthma	1,004	7.2%
Atrial fibrillation	239	1.7%
Benign prostatic hyperplasia	298	2.1%
Breast cancer	240	1.7%
Chronic kidney disease	944	6.8%
Chronic obstructive pulmonary disorder and bronchiectasis	1,007	7.2%
Colorectal cancer	38	0.3%
Depression	5,468	39.3%
Diabetes	1,850	13.3%
Drug abuse or dependence	270	1.9%
Endometrial cancer	*****	*****
Glaucoma	1,104	7.9%
Heart failure	529	3.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	248	1.8%
Hyperlipidemia	4,090	29.4%
Hypertension	5,047	36.3%
Ischemic heart disease	1,244	8.9%
Lung cancer	28	0.2%
Obesity	2,474	17.8%
Osteoporosis	758	5.4%

**Table 1a. Baseline Characteristics for New Users of Teriflunomide in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Overweight	807	5.8%
Prostate cancer	51	0.4%
Rheumatoid arthritis/osteoarthritis	2,738	19.7%
Smoking	3,500	25.1%
Stroke/transient ischemic attack	495	3.6%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1aj. Baseline Characteristics for New Users of Tofacitinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	18,228	100%
Number of unique patients	18,228	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	59.6	12.5
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	83	0.5%
19-64	11,395	62.5%
65+	6,750	37.0%
Sex		
Female	15,083	82.7%
Male	3,145	17.3%
Other	0	0.0%
Year		
2012	*****	*****
2013	2,891	15.9%
2014	4,063	22.3%
2015	4,334	23.8%
2016	3,396	18.6%
2017	2,621	14.4%
2018	831	4.6%
2019	*****	*****
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	3,338	18.3%
Acute myocardial infarction	116	0.6%
Alcohol abuse or dependence	168	0.9%
Alzheimer's disease and related conditions	320	1.8%
Anemia	5,128	28.1%
Asthma	1,984	10.9%
Atrial fibrillation	866	4.8%
Benign prostatic hyperplasia	357	2.0%
Breast cancer	332	1.8%
Chronic kidney disease	2,097	11.5%
Chronic obstructive pulmonary disorder and bronchiectasis	2,476	13.6%
Colorectal cancer	64	0.4%
Depression	4,719	25.9%
Diabetes	3,899	21.4%
Drug abuse or dependence	222	1.2%
Endometrial cancer	16	0.1%
Glaucoma	1,826	10.0%
Heart failure	1,542	8.5%
History of cardiac arrest	12	0.1%
History of coronary angioplasty or bypass	704	3.9%
Hyperlipidemia	6,706	36.8%
Hypertension	9,025	49.5%
Ischemic heart disease	2,825	15.5%
Lung cancer	62	0.3%
Obesity	3,814	20.9%

**Table 1aj. Baseline Characteristics for New Users of Tofacitinib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	3,126	17.1%
Overweight	997	5.5%
Prostate cancer	85	0.5%
Rheumatoid arthritis/osteoarthritis	17,533	96.2%
Smoking	3,980	21.8%
Stroke/TIA	421	2.3%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1ak. Baseline Characteristics for New Users of Vismodegib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	3,935	100%
Number of unique patients	3,935	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	75.9	12.3
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	*****	*****
19-64	*****	*****
65+	3,246	82.5%
Sex		
Female	1,553	39.5%
Male	2,382	60.5%
Other	0	0.0%
Year		
2012	291	7.4%
2013	539	13.7%
2014	563	14.3%
2015	711	18.1%
2016	764	19.4%
2017	820	20.8%
2018	247	6.3%
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	573	14.6%
Acute myocardial infarction	40	1.0%
Alcohol abuse or dependence	56	1.4%
Alzheimer's disease and related conditions	594	15.1%
Anemia	1,310	33.3%
Asthma	165	4.2%
Atrial fibrillation	621	15.8%
Benign prostatic hyperplasia	404	10.3%
Breast cancer	88	2.2%
Chronic kidney disease	867	22.0%
Chronic obstructive pulmonary disorder and bronchiectasis	668	17.0%
Colorectal cancer	61	1.6%
Depression	729	18.5%
Diabetes	982	25.0%
Drug abuse or dependence	*****	*****
Endometrial cancer	*****	*****
Glaucoma	423	10.7%
Heart failure	696	17.7%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	371	9.4%
Hyperlipidemia	1,738	44.2%
Hypertension	2,560	65.1%
Ischemic heart disease	1,189	30.2%
Lung cancer	94	2.4%
Obesity	455	11.6%

**Table 1ak. Baseline Characteristics for New Users of Vismodegib in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	232	5.9%
Overweight	234	5.9%
Prostate cancer	185	4.7%
Rheumatoid arthritis/osteoarthritis	850	21.6%
Smoking	884	22.5%
Stroke/transient ischemic attack	264	6.7%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

\*\*\*\*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 1a. Baseline Characteristics for New Users of Ziv-Aflibercept in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Characteristic</b>	<b>Number</b>	<b>Percent</b>
Number of episodes	1,888	100%
Number of unique patients	1,888	100%
<b>Demographics<sup>1</sup></b>	<b>Mean</b>	<b>Standard Deviation</b>
Mean age (years)	66.9	9.6
Age (years)	<b>Number</b>	<b>Percent</b>
0-18	0	0.0%
19-64	644	34.1%
65+	1,244	65.9%
Sex		
Female	851	45.1%
Male	1,037	54.9%
Other	0	0.0%
Year		
2012	*****	*****
2013	334	17.7%
2014	684	36.2%
2015	424	22.5%
2016	231	12.2%
2017	167	8.8%
2018	*****	*****
2019	0	0.0%
<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Acquired hypothyroidism	224	11.9%
Acute myocardial infarction	*****	*****
Alcohol abuse or dependence	21	1.1%
Alzheimer's disease and related conditions	48	2.5%
Anemia	1,054	55.8%
Asthma	104	5.5%
Atrial fibrillation	164	8.7%
Benign prostatic hyperplasia	187	9.9%
Breast cancer	67	3.5%
Chronic kidney disease	426	22.6%
Chronic obstructive pulmonary disorder and bronchiectasis	239	12.7%
Colorectal cancer	1,863	98.7%
Depression	320	16.9%
Diabetes	498	26.4%
Drug abuse or dependence	15	0.8%
Endometrial cancer	12	0.6%
Glaucoma	138	7.3%
Heart failure	167	8.8%
History of cardiac arrest	*****	*****
History of coronary angioplasty or bypass	139	7.4%
Hyperlipidemia	711	37.7%
Hypertension	1,248	66.1%
Ischemic heart disease	420	22.2%
Lung cancer	171	9.1%
Obesity	277	14.7%

**Table 1a. Baseline Characteristics for New Users of Ziv-Aflibercept in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019**

<b>Recorded History of Characteristics in the 365 Days prior to Index:</b>	<b>Number</b>	<b>Percent</b>
Osteoporosis	67	3.5%
Overweight	117	6.2%
Prostate cancer	79	4.2%
Rheumatoid arthritis/osteoarthritis	240	12.7%
Smoking	587	31.1%
Stroke/transient ischemic attack	57	3.0%

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

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

**Table 2a. Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, Overall**

<b>New Molecular Entity</b>	<b>Number of New Users</b>	<b>Eligible Members<sup>1</sup></b>	<b>Eligible Member-Years<sup>1</sup></b>	<b>New Users per 1,000 Eligible Members</b>
Acridinium Bromide	103,986	116,618,894	323,526,562.1	0.89
Apixaban	1,192,648	116,512,850	321,952,344.3	10.24
Avanafil	15,359	116,624,578	323,783,417.8	0.13
Axitinib	4,028	116,624,914	323,809,811.0	0.03
Bedaquiline	39	116,625,220	323,815,442.9	0.00
Bosutinib	1,458	116,625,056	323,812,532.8	0.01
Cabozantinib	0	116,625,223	323,815,507.5	0.00
Carfilzomib	0	116,625,223	323,815,507.5	0.00
Choline C 11	1,377	116,625,187	323,813,961.9	0.01
Crofelemer	882	116,625,184	323,813,405.2	0.01
Elvitegravir/Cobicistat/Emtricitabine/Tenofovir	20,771	116,619,019	323,748,079.2	0.18
Disoproxil Fumarate				
Enzalutamide	34,183	116,623,184	323,769,786.3	0.29
Florbetapir F 18	6,917	116,625,162	323,808,454.0	0.06
Glucarpidase	*****	116,625,223	323,815,504.0	*****
Ingenol Mebutate	73,998	116,624,294	323,640,528.4	0.63
Ivacaftor	615	116,624,929	323,813,785.9	0.01
Linaclotide	529,798	116,591,147	322,787,136.2	4.54
Lomitapide	537	116,625,194	323,813,728.7	0.00
Lorcaserin Hydrochloride	15,920	116,624,584	323,784,580.9	0.14
Lucinactant	0	116,625,223	323,815,507.5	0.00
Mirabegron	508,105	116,596,187	322,845,485.4	4.36
Sodium Picosulfate/ Magnesium Oxide/ Citric Acid	279,416	116,621,380	323,295,434.7	2.40
Ocriplasmin	3,337	116,625,216	323,807,328.1	0.03
Omacetaxine Mepesuccinate	170	116,625,218	323,815,231.3	0.00
Pasireotide Diaspartate	103	116,625,210	323,815,314.9	0.00
Peginesatide	13,036	116,625,121	323,772,709.3	0.11
Perampanel	5,701	116,624,678	323,804,574.5	0.05
Pertuzumab	19,628	116,623,676	323,781,428.4	0.17
Ponatinib	928	116,625,120	323,813,834.0	0.01
Regorafenib	9,717	116,624,576	323,808,079.4	0.08
Tafluprost	27,736	116,622,129	323,733,902.1	0.24
Taliglucerase Alfa	201	116,625,212	323,815,158.9	0.00
Tbo-Filgrastim	27,789	116,624,514	323,781,796.6	0.24
Teduglutide	854	116,625,102	323,813,922.4	0.01
Teriflunomide	13,918	116,622,625	323,781,209.2	0.12
Tofacitinib	18,228	116,623,150	323,771,079.6	0.16
Vismodegib	3,935	116,625,013	323,807,917.8	0.03
Ziv-Aflibercept	1,888	116,625,103	323,813,477.7	0.02

<sup>1</sup>Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

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

**Table 2b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, Overall**

New Molecular Entity	Number of Members	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>				Summary Statistics for Length of Follow-Up Time in Days						
		< 1	1-2	3-4	5+	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Acidinium Bromide	103,986	19,741	40,090	41,395	2,760	1	491.0	999.0	1343.0	2182.0	936.3	515.8
Apixaban	1,192,648	534,466	525,724	131,176	1,282	1	165.0	424.0	781.0	2109.0	515.8	412.5
Avanafil	15,359	4,386	7,021	3,952	0	1	316.0	712.0	1110.0	1772.0	725.1	451.9
Axitinib	4,028	2,224	1,428	326	50	1	128.0	309.5	667.0	2411.0	458.1	433.0
Bedaquiline	39	20	*****	*****	0	23	146.0	363.0	978.0	1791.0	561.9	522.5
Bosutinib	1,458	539	583	286	50	1	235.0	535.0	1045.0	2250.0	672.1	536.6
Cabozantinib	0	0	0	0	0	-	-	-	-	-	-	-
Carfilzomib	0	0	0	0	0	-	-	-	-	-	-	-
Choline C 11	1,377	604	773	0	0	2	200.0	409.0	598.0	964.0	397.1	223.2
Crofelemer	882	*****	322	313	*****	1	312.0	839.0	1265.0	1907.0	818.1	541.7
Elvitegravir/Cobicistat/ Emtricitabine/ Tenofovir Disoproxil Fumarate	20,771	4,285	8,363	6,767	1,356	1	451.0	923.0	1371.0	2286.0	928.9	558.6
Enzalutamide	34,183	17,791	14,023	2,253	116	1	150.0	345.0	654.0	2216.0	444.9	370.1
Florbetapir F 18	6,917	3,809	3,031	59	18	1	207.0	338.0	494.0	2039.0	367.5	222.6
Glucarpidase	*****	*****	*****	0	0	45	61.5	113.5	581.5	1014.0	321.5	463.7
Ingenol Mebutate	73,998	20,341	28,178	20,223	5,256	1	326.0	778.0	1282.0	2432.0	845.1	589.3
Ivacaftor	615	289	180	84	62	3	199.0	426.0	1052.0	2444.0	698.3	640.7
Linacotide	529,798	186,375	232,487	106,573	4,363	1	250.0	566.0	1004.0	2189.0	658.0	478.8
Lomitapide	537	67	155	304	11	5	766.0	1161.0	1447.0	1993.0	1087.8	480.9
Lorcaserin Hydrochloride	15,920	5,575	6,604	3,696	45	1	253.0	574.0	1066.0	2009.0	666.7	473.4
Lucinactant	0	0	0	0	0	-	-	-	-	-	-	-
Mirabegron	508,105	179,972	226,350	97,109	4,674	1	254.0	547.0	977.0	2229.0	651.0	478.8
Sodium Picosulfate/Magnesium Oxide/ Citric Acid	279,416	96,671	123,062	56,101	3,582	1	249.0	573.0	1012.0	2238.0	665.7	488.9
Ocriplasmin	3,337	*****	1,481	1,259	*****	2	503.0	938.0	1269.0	1968.0	886.9	459.3

**Table 2b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, Overall**

New Molecular Entity	Number of Members	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>				Summary Statistics for Length of Follow-Up Time in Days						
		< 1	1-2	3-4	5+	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
Omacetaxine Mepesuccinate	170	82	54	*****	*****	3	101.0	409.0	851.0	1882.0	566.0	524.1
Pasireotide Diaspartate	103	52	32	19	0	9	166.0	346.0	809.0	1810.0	550.7	508.3
Peginesatide	13,036	2,493	3,791	2,397	4,355	1	492.0	1153.0	1885.0	2320.0	1161.5	705.5
Perampanel	5,701	1,909	2,676	1,116	0	1	255.0	576.0	982.0	1776.0	643.1	440.5
Pertuzumab	19,628	7,753	9,072	2,734	69	1	219.0	488.5	865.0	2129.0	577.2	429.1
Ponatinib	928	467	279	140	42	3	126.5	352.5	850.0	2171.0	582.6	572.8
Regorafenib	9,717	7,686	1,858	*****	*****	1	81.0	168.0	322.0	2048.0	248.5	257.0
Tafuprost	27,736	6,712	9,785	7,967	3,272	1	377.0	870.0	1489.0	2434.0	941.2	635.5
Taliglucerase Alfa	201	72	103	*****	*****	10	298.0	425.0	671.0	2360.0	564.2	450.6
Tbo-Filgrastim	27,789	15,289	10,703	1,797	0	1	141.0	315.0	638.0	1772.0	425.7	357.1
Teduglutide	854	386	304	*****	*****	1	182.0	427.5	922.0	1850.0	591.0	502.3
Teriflunomide	13,918	4,044	6,158	3,161	555	1	311.0	669.0	1133.0	2224.0	762.7	534.5
Tofacitinib	18,228	4,801	7,989	5,052	386	1	343.0	752.0	1181.0	2177.0	794.0	515.9
Vismodegib	3,935	1,459	1,675	667	134	1	227.0	538.0	969.0	2465.0	660.9	521.9
Ziv-Aflibercept	1,888	1,217	596	*****	*****	3	140.0	265.5	468.5	1910.0	353.8	307.5

<sup>1</sup> Some follow-up time categories were combined and converted to years during the reporting process. Below are the time categories in days from the specifications and the corresponding time categories reported in years:

- 1-364 days = <1 year
- 365-729 and 730-1094 = 1-2 years
- 1095-1459 and 1460-1824 = 3-4 years
- 1825+ = 5+ years

\*\*\*\*\*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 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Acidinium Bromide</b>				
2012	297	57,607,345	45,839,843.6	0.01
2013	26,913	54,652,405	47,666,802.7	0.49
2014	33,529	58,109,088	50,561,352.2	0.58
2015	32,371	60,344,110	52,798,822.3	0.54
2016	6,472	68,074,028	54,767,298.6	0.10
2017	3,566	63,299,599	54,653,664.1	0.06
2018	838	44,007,467	17,221,546.9	0.02
2019	0	203,807	17,231.9	0.00
<b>Apixaban</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	*****	54,652,916	47,669,076.8	*****
2014	116,994	58,100,425	50,522,490.7	2.01
2015	224,682	60,243,176	52,623,884.0	3.73
2016	315,226	67,752,271	54,352,538.3	4.65
2017	344,577	62,739,050	53,975,498.6	5.49
2018	160,345	43,224,793	16,951,781.0	3.71
2019	*****	203,692	17,222.1	*****
<b>Avanafil</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	6,211	58,137,904	50,603,622.9	0.11
2015	5,083	60,395,315	52,862,599.1	0.08
2016	2,576	68,142,418	54,833,570.4	0.04
2017	1,221	63,360,581	54,711,496.3	0.02
2018	268	44,060,740	17,235,818.3	0.01
2019	0	203,812	17,232.3	0.00
<b>Axitinib</b>				
2012	651	57,607,324	45,839,601.8	0.01
2013	725	54,652,838	47,678,530.7	0.01
2014	790	58,137,217	50,605,232.6	0.01
2015	845	60,399,971	52,869,349.7	0.01
2016	498	68,150,365	54,842,133.0	0.01
2017	384	63,368,660	54,719,526.2	0.01
2018	135	44,064,850	17,238,204.7	0.00
2019	0	203,812	17,232.3	0.00
<b>Bedaquiline</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	*****	54,653,388	47,679,224.5	*****
2014	*****	58,138,096	50,606,253.5	*****
2015	*****	60,401,024	52,870,500.6	*****
2016	*****	68,151,600	54,843,324.2	*****
2017	13	63,369,722	54,720,558.6	0.00
2018	*****	44,065,761	17,238,496.2	*****
2019	0	203,812	17,232.3	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

<b>Year<sup>1</sup></b>	<b>Number of New Users</b>	<b>Eligible Members<sup>2</sup></b>	<b>Eligible Member-Years<sup>2</sup></b>	<b>New Users per 1,000 Eligible Members</b>
<b>Bosutinib</b>				
2012	75	57,607,386	45,839,842.5	0.00
2013	221	54,653,306	47,679,057.1	0.00
2014	263	58,137,825	50,605,889.1	0.00
2015	255	60,400,558	52,869,967.1	0.00
2016	252	68,150,947	54,842,628.0	0.00
2017	296	63,368,937	54,719,704.7	0.00
2018	96	44,064,896	17,238,212.4	0.00
2019	0	203,807	17,231.9	0.00
<b>Cabozantinib</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	0	58,138,101	50,606,261.2	0.00
2015	0	60,401,034	52,870,512.0	0.00
2016	0	68,151,615	54,843,340.6	0.00
2017	0	63,369,738	54,720,579.7	0.00
2018	0	44,065,780	17,238,503.2	0.00
2019	0	203,812	17,232.3	0.00
<b>Carfilzomib</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	0	58,138,101	50,606,261.2	0.00
2015	0	60,401,034	52,870,512.0	0.00
2016	0	68,151,615	54,843,340.6	0.00
2017	0	63,369,738	54,720,579.7	0.00
2018	0	44,065,780	17,238,503.2	0.00
2019	0	203,812	17,232.3	0.00
<b>Choline C 11</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	0	58,138,101	50,606,261.2	0.00
2015	0	60,401,034	52,870,512.0	0.00
2016	651	68,151,565	54,843,065.9	0.01
2017	583	63,369,106	54,719,650.7	0.01
2018	143	44,064,636	17,238,161.3	0.00
2019	0	203,812	17,232.3	0.00
<b>Crofelemer</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	177	54,653,382	47,679,175.6	0.00
2014	258	58,137,925	50,605,970.6	0.00
2015	188	60,400,638	52,870,028.2	0.00
2016	86	68,151,075	54,842,783.6	0.00
2017	100	63,369,189	54,720,027.0	0.00
2018	73	44,065,244	17,238,335.5	0.00
2019	0	203,807	17,231.9	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>				
2012	1,484	57,607,283	45,839,628.4	0.03
2013	5,456	54,651,232	47,674,855.4	0.10
2014	5,428	58,129,778	50,596,569.8	0.09
2015	5,344	60,386,761	52,855,562.4	0.09
2016	2,179	68,131,774	54,825,139.0	0.03
2017	740	63,352,935	54,704,549.4	0.01
2018	140	44,054,201	17,234,544.7	0.00
2019	0	203,785	17,230.0	0.00
<b>Enzalutamide</b>				
2012	1,693	57,607,223	45,839,587.9	0.03
2013	3,909	54,651,612	47,676,366.6	0.07
2014	6,057	58,133,887	50,600,604.5	0.10
2015	7,541	60,393,563	52,861,195.7	0.12
2016	6,382	68,140,320	54,831,525.8	0.09
2017	5,871	63,358,328	54,708,584.6	0.09
2018	2,728	44,054,514	17,234,693.2	0.06
2019	*****	203,760	17,228.0	*****
<b>Florbetapir F 18</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	75	54,653,388	47,679,180.7	0.00
2014	38	58,138,035	50,606,175.6	0.00
2015	30	60,400,941	52,870,408.5	0.00
2016	2,142	68,151,394	54,842,564.0	0.03
2017	4,580	63,367,585	54,716,287.5	0.07
2018	52	44,059,483	17,236,752.5	0.00
2019	0	203,812	17,232.3	0.00
<b>Glucarpidase</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	0	58,138,101	50,606,261.2	0.00
2015	*****	60,401,034	52,870,511.5	*****
2016	*****	68,151,614	54,843,339.0	*****
2017	0	63,369,736	54,720,578.5	0.00
2018	0	44,065,779	17,238,502.9	0.00
2019	0	203,812	17,232.3	0.00
<b>Ingenol Mebutate</b>				
2012	7,755	57,606,407	45,837,191.9	0.13
2013	12,029	54,646,125	47,666,539.5	0.22
2014	14,691	58,121,123	50,583,159.0	0.25
2015	14,061	60,373,225	52,836,584.0	0.23
2016	11,226	68,113,193	54,801,621.4	0.16
2017	10,484	63,326,784	54,674,930.2	0.17
2018	3,752	44,025,778	17,223,272.6	0.09
2019	0	203,782	17,229.8	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Ivacaftor</b>				
2012	137	57,607,367	45,839,759.1	0.00
2013	22	54,653,214	47,679,060.4	0.00
2014	40	58,137,897	50,606,067.1	0.00
2015	115	60,400,780	52,870,215.5	0.00
2016	37	68,151,200	54,842,985.9	0.00
2017	216	63,369,332	54,720,154.8	0.00
2018	48	44,065,345	17,238,310.8	0.00
2019	0	203,812	17,232.3	0.00
<b>Linaclotide</b>				
2012	*****	57,607,357	45,839,845.3	*****
2013	46,516	54,651,663	47,659,730.5	0.85
2014	95,555	58,088,108	50,516,366.5	1.65
2015	105,617	60,264,370	52,691,347.9	1.75
2016	122,276	67,917,269	54,573,141.5	1.80
2017	124,044	63,056,708	54,369,187.7	1.97
2018	35,572	43,707,197	17,120,292.1	0.81
2019	*****	203,723	17,224.7	*****
<b>Lomitapide</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	165	54,653,381	47,679,161.5	0.00
2014	203	58,137,917	50,606,001.6	0.00
2015	151	60,400,645	52,870,043.5	0.00
2016	*****	68,151,144	54,842,861.3	*****
2017	*****	63,369,329	54,720,177.0	*****
2018	*****	44,065,443	17,238,398.8	*****
2019	0	203,812	17,232.3	0.00
<b>Lorcaserin Hydrochloride</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	*****	54,653,355	47,679,027.6	*****
2014	3,946	58,137,057	50,603,624.7	0.07
2015	4,061	60,396,647	52,864,073.7	0.07
2016	2,795	68,143,986	54,835,078.4	0.04
2017	3,066	63,361,424	54,711,357.5	0.05
2018	1,251	44,058,164	17,234,336.2	0.03
2019	*****	203,786	17,230.0	*****
<b>Lucinactant</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	0	58,138,101	50,606,261.2	0.00
2015	0	60,401,034	52,870,512.0	0.00
2016	0	68,151,615	54,843,340.6	0.00
2017	0	63,369,738	54,720,579.7	0.00
2018	0	44,065,780	17,238,503.2	0.00
2019	0	203,812	17,232.3	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Mirabegron</b>				
2012	*****	57,607,213	45,839,745.7	*****
2013	43,167	54,651,061	47,659,893.8	0.79
2014	77,300	58,089,385	50,522,672.0	1.33
2015	91,680	60,280,618	52,711,840.5	1.52
2016	113,940	67,943,782	54,596,503.6	1.68
2017	139,057	63,083,012	54,380,229.1	2.20
2018	41,476	43,687,180	17,117,381.5	0.95
2019	*****	203,659	17,219.2	*****
<b>Sodium Picosulfate/Magnesium Oxide/Citric Acid</b>				
2012	*****	57,607,217	45,839,742.2	*****
2013	30,565	54,651,713	47,666,228.5	0.56
2014	54,567	58,110,174	50,554,284.4	0.94
2015	59,372	60,331,752	52,776,956.9	0.98
2016	61,475	68,035,752	54,708,722.2	0.90
2017	54,020	63,225,499	54,558,992.6	0.85
2018	18,239	43,934,221	17,173,278.7	0.42
2019	*****	203,777	17,229.2	*****
<b>Ocriplasmin</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	105	54,653,387	47,679,182.2	0.00
2014	1,298	58,137,992	50,605,461.9	0.02
2015	930	60,399,721	52,868,725.6	0.02
2016	530	68,149,514	54,841,016.2	0.01
2017	380	63,367,365	54,718,102.3	0.01
2018	94	44,063,334	17,237,754.8	0.00
2019	0	203,812	17,232.3	0.00
<b>Omacetaxine Mepesuccinate</b>				
2012	*****	57,607,396	45,839,852.7	*****
2013	26	54,653,385	47,679,215.2	0.00
2014	40	58,138,077	50,606,223.7	0.00
2015	39	60,400,987	52,870,453.5	0.00
2016	26	68,151,550	54,843,267.7	0.00
2017	32	63,369,667	54,720,506.3	0.00
2018	*****	44,065,704	17,238,480.0	*****
2019	0	203,812	17,232.3	0.00
<b>Pasireotide Diaspartate</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	21	54,653,388	47,679,219.2	0.00
2014	21	58,138,080	50,606,231.3	0.00
2015	15	60,401,002	52,870,476.0	0.00
2016	29	68,151,569	54,843,288.9	0.00
2017	*****	63,369,686	54,720,527.8	*****
2018	*****	44,065,737	17,238,486.5	*****
2019	0	203,812	17,232.3	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Peginesatide</b>				
2012	7,646	57,606,934	45,837,563.5	0.13
2013	5,327	54,646,120	47,667,719.4	0.10
2014	*****	58,127,906	50,597,014.9	*****
2015	21	60,392,715	52,863,060.7	0.00
2016	19	68,144,779	54,837,196.5	0.00
2017	*****	63,364,148	54,715,557.4	*****
2018	0	44,061,268	17,237,364.6	0.00
2019	0	203,812	17,232.3	0.00
<b>Perampanel</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	1,211	58,138,056	50,605,670.7	0.02
2015	1,310	60,399,765	52,868,736.0	0.02
2016	1,416	68,148,956	54,840,277.3	0.02
2017	1,365	63,365,963	54,716,386.1	0.02
2018	399	44,061,645	17,237,193.7	0.01
2019	0	203,811	17,232.2	0.00
<b>Pertuzumab</b>				
2012	*****	57,607,372	45,839,818.1	*****
2013	697	54,653,130	47,678,738.2	0.01
2014	3,781	58,137,052	50,603,550.3	0.07
2015	4,270	60,396,671	52,864,624.8	0.07
2016	4,521	68,143,664	54,834,313.5	0.07
2017	4,550	63,359,535	54,709,067.7	0.07
2018	1,606	44,054,441	17,234,087.8	0.04
2019	*****	203,762	17,228.0	*****
<b>Ponatinib</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	312	54,653,371	47,679,038.5	0.01
2014	104	58,137,845	50,605,994.7	0.00
2015	125	60,400,740	52,870,209.6	0.00
2016	165	68,151,259	54,842,968.6	0.00
2017	159	63,369,328	54,720,169.0	0.00
2018	63	44,065,386	17,238,368.7	0.00
2019	0	203,810	17,232.2	0.00
<b>Regorafenib</b>				
2012	687	57,607,320	45,839,770.0	0.01
2013	2,145	54,652,650	47,678,030.0	0.04
2014	1,863	58,136,699	50,604,746.5	0.03
2015	1,821	60,399,551	52,868,955.6	0.03
2016	1,281	68,150,095	54,841,976.5	0.02
2017	1,514	63,368,512	54,719,239.7	0.02
2018	406	44,064,686	17,238,129.4	0.01
2019	0	203,804	17,231.6	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Taf luprost</b>				
2012	3,542	57,606,933	45,838,651.0	0.06
2013	6,159	54,649,480	47,672,116.2	0.11
2014	4,503	58,127,567	50,593,452.5	0.08
2015	4,047	60,387,072	52,854,834.6	0.07
2016	3,969	68,134,047	54,824,917.7	0.06
2017	3,647	63,350,857	54,700,446.0	0.06
2018	1,869	44,046,522	17,232,252.6	0.04
2019	0	203,802	17,231.5	0.00
<b>Taliglucerase Alfa</b>				
2012	*****	57,607,396	45,839,848.5	*****
2013	*****	54,653,380	47,679,216.3	*****
2014	23	58,138,086	50,606,235.6	0.00
2015	21	60,400,998	52,870,462.1	0.00
2016	63	68,151,553	54,843,277.1	0.00
2017	78	63,369,636	54,720,433.3	0.00
2018	*****	44,065,635	17,238,453.8	*****
2019	0	203,812	17,232.3	0.00
<b>Tbo-Filgrastim</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	0	54,653,388	47,679,225.7	0.00
2014	3,847	58,138,027	50,604,749.9	0.07
2015	6,606	60,397,732	52,865,055.1	0.11
2016	7,541	68,143,874	54,833,728.6	0.11
2017	7,325	63,358,978	54,708,172.6	0.12
2018	2,470	44,052,788	17,233,779.6	0.06
2019	0	203,812	17,232.3	0.00
<b>Teduglutide</b>				
2012	0	57,607,396	45,839,852.8	0.00
2013	107	54,653,386	47,679,191.2	0.00
2014	99	58,137,987	50,606,104.7	0.00
2015	127	60,400,823	52,870,251.5	0.00
2016	168	68,151,268	54,842,955.8	0.00
2017	280	63,369,252	54,720,035.8	0.00
2018	73	44,065,140	17,238,298.3	0.00
2019	0	203,812	17,232.3	0.00
<b>Teriflunomide</b>				
2012	285	57,607,375	45,839,828.4	0.00
2013	2,303	54,652,939	47,677,677.3	0.04
2014	2,072	58,135,249	50,602,626.8	0.04
2015	2,719	60,396,127	52,864,667.3	0.05
2016	3,124	68,143,492	54,834,676.6	0.05
2017	2,625	63,359,466	54,709,661.5	0.04
2018	790	44,055,343	17,234,839.1	0.02
2019	0	203,810	17,232.2	0.00

**Table 3a. Summary of New Users for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019 by Year**

Year <sup>1</sup>	Number of New Users	Eligible Members <sup>2</sup>	Eligible Member-Years <sup>2</sup>	New Users per 1,000 Eligible Members
<b>Tofacitinib</b>				
2012	*****	57,607,390	45,839,848.9	*****
2013	2,891	54,653,200	47,677,807.7	0.05
2014	4,063	58,134,734	50,601,137.0	0.07
2015	4,334	60,393,872	52,861,735.4	0.07
2016	3,396	68,140,357	54,831,307.3	0.05
2017	2,621	63,357,196	54,707,502.9	0.04
2018	831	44,054,397	17,234,515.1	0.02
2019	*****	203,730	17,225.3	*****
<b>Vismodegib</b>				
2012	291	57,607,363	45,839,732.6	0.01
2013	539	54,653,106	47,678,735.1	0.01
2014	563	58,137,370	50,605,333.0	0.01
2015	711	60,399,909	52,869,167.4	0.01
2016	764	68,149,980	54,841,542.0	0.01
2017	820	63,367,769	54,718,403.8	0.01
2018	247	44,063,559	17,237,771.6	0.01
2019	0	203,811	17,232.2	0.00
<b>Ziv-Aflibercept</b>				
2012	*****	57,607,395	45,839,851.4	*****
2013	334	54,653,354	47,679,029.7	0.01
2014	684	58,137,824	50,605,748.7	0.01
2015	424	60,400,527	52,869,977.0	0.01
2016	231	68,151,139	54,842,928.0	0.00
2017	167	63,369,409	54,720,278.3	0.00
2018	*****	44,065,550	17,238,432.4	*****
2019	0	203,812	17,232.3	0.00

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

<sup>2</sup>Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period

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

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Acidinium Bromide</b>					
2012	297	60	89	52	96
2013	26,913	4,286	6,758	13,205	2664
2014	33,529	5,554	8,231	19,744	0
2015	32,371	5,186	18,791	8,394	0
2016	6,472	1,337	5,135	0	0
2017	3,566	2,480	1,086	0	0
2018	838	838	0	0	0
2019	0	0	0	0	0
<b>Apixaban</b>					
2012	0	0	0	0	0
2013	****	4,153	****	****	1282
2014	116,994	17,026	25,781	74,187	0
2015	224,682	35,712	151,222	37,748	0
2016	315,226	****	255,528	****	0
2017	344,577	257,533	87,044	0	0
2018	160,345	****	****	0	0
2019	****	****	0	0	0
<b>Avanafil</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	6,211	1,424	1,757	3,030	0
2015	5,083	1,172	2,989	922	0
2016	2,576	619	1,957	0	0
2017	1,221	903	318	0	0
2018	268	268	0	0	0
2019	0	0	0	0	0
<b>Axitinib</b>					
2012	651	344	218	****	****
2013	725	386	230	****	****
2014	790	404	260	126	0
2015	845	401	392	52	0
2016	498	217	281	0	0
2017	384	337	47	0	0
2018	135	135	0	0	0
2019	0	0	0	0	0
<b>Bedaquiline</b>					
2012	0	0	0	0	0
2013	****	0	****	****	0
2014	****	0	****	****	0
2015	****	****	****	0	0
2016	****	****	****	0	0
2017	13	****	****	0	0
2018	****	****	****	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Bosutinib</b>					
2012	75	*****	21	*****	32
2013	221	55	50	98	18
2014	263	64	66	133	0
2015	255	*****	156	*****	0
2016	252	50	202	0	0
2017	296	208	88	0	0
2018	96	96	0	0	0
2019	0	0	0	0	0
<b>Cabozantinib</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
<b>Carfilzomib</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
<b>Choline C 11</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	651	67	584	0	0
2017	583	394	189	0	0
2018	143	143	0	0	0
2019	0	0	0	0	0
<b>Crofelemer</b>					
2012	0	0	0	0	0
2013	177	*****	*****	108	*****
2014	258	*****	60	161	*****
2015	188	21	123	44	0
2016	86	*****	*****	0	0
2017	100	73	27	0	0
2018	73	73	0	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>					
2012	1,484	205	384	223	672
2013	5,456	945	1,259	2,568	684
2014	5,428	1,019	1,311	3,098	0
2015	5,344	982	3,484	878	0
2016	2,179	476	1,703	0	0
2017	740	518	222	0	0
2018	140	140	0	0	0
2019	0	0	0	0	0
<b>Enzalutamide</b>					
2012	*****	909	*****	119	57
2013	3,909	1,812	1,509	529	59
2014	6,057	2,441	2,538	1,078	0
2015	7,541	2,750	4,264	527	0
2016	6,382	2,359	4,023	0	0
2017	5,871	4,791	1,080	0	0
2018	2,728	*****	*****	0	0
2019	*****	*****	0	0	0
<b>Florbetapir F 18</b>					
2012	0	0	0	0	0
2013	75	13	16	28	18
2014	38	*****	*****	*****	0
2015	30	*****	19	*****	0
2016	2,142	199	1,943	0	0
2017	4,580	3,534	1,046	0	0
2018	52	52	0	0	0
2019	0	0	0	0	0
<b>Glucarpidase</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	*****	*****	*****	0	0
2016	*****	*****	*****	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
<b>Ingenol Mebutate</b>					
2012	7,755	1,190	1,926	1,112	3527
2013	12,029	1,992	2,298	6,010	1729
2014	14,691	1,981	2,949	9,761	0
2015	14,061	1,827	8,894	3,340	0
2016	11,226	1,830	9,396	0	0
2017	10,484	7,769	2,715	0	0
2018	3,752	3,752	0	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Ivacaftor</b>					
2012	137	15	45	*****	*****
2013	22	*****	*****	*****	*****
2014	40	*****	*****	26	0
2015	115	17	68	30	0
2016	37	*****	*****	0	0
2017	216	189	27	0	0
2018	48	48	0	0	0
2019	0	0	0	0	0
<b>Linaclotide</b>					
2012	*****	44	*****	23	94
2013	46,516	7,664	9,790	24,793	4269
2014	95,555	13,886	20,060	61,609	0
2015	105,617	15,072	70,397	20,148	0
2016	122,276	20,327	101,949	0	0
2017	124,044	93,808	30,236	0	0
2018	35,572	*****	*****	0	0
2019	*****	*****	0	0	0
<b>Lomitapide</b>					
2012	0	0	0	0	0
2013	165	24	29	101	11
2014	203	19	34	150	0
2015	151	18	80	53	0
2016	*****	0	*****	0	0
2017	*****	*****	*****	0	0
2018	*****	*****	*****	0	0
2019	0	0	0	0	0
<b>Lorcaserin Hydrochloride</b>					
2012	0	0	0	0	0
2013	797	164	*****	*****	45
2014	3,946	761	1,057	2,128	0
2015	4,061	788	2,119	1,154	0
2016	*****	*****	2,172	*****	0
2017	3,066	1,986	1,080	0	0
2018	1,251	*****	*****	0	0
2019	*****	*****	0	0	0
<b>Lucinactant</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	0	0	0	0	0
2015	0	0	0	0	0
2016	0	0	0	0	0
2017	0	0	0	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Mirabegron</b>					
2012	*****	196	*****	234	709
2013	43,167	4,720	8,194	26,288	3965
2014	77,300	8,264	15,864	53,172	0
2015	91,680	9,635	64,630	17,415	0
2016	113,940	14,681	99,259	0	0
2017	139,057	100,998	38,059	0	0
2018	94	*****	*****	0	0
2019	*****	*****	0	0	0
<b>Sodium Picosulfate/ Magnesium Oxide/ Citric Acid</b>					
2012	*****	251	*****	183	362
2013	30,565	7,163	7,457	12,725	3220
2014	54,567	10,494	13,516	30,557	0
2015	59,372	10,664	36,072	12,636	0
2016	61,475	12,965	48,510	0	0
2017	54,020	36,893	17,127	0	0
2018	18,239	*****	*****	0	0
2019	*****	*****	*****	0	0
<b>Ocriplasmin</b>					
2012	0	0	0	0	0
2013	105	*****	*****	74	*****
2014	1,298	109	229	960	0
2015	930	72	633	225	0
2016	530	*****	*****	0	0
2017	380	260	120	0	0
2018	94	94	0	0	0
2019	0	0	0	0	0
<b>Omacetaxine Mepesuccinate</b>					
2012	*****	0	*****	0	0
2013	*****	*****	*****	12	*****
2014	40	*****	*****	16	0
2015	39	*****	18	*****	0
2016	26	*****	*****	0	0
2017	32	*****	*****	0	0
2018	*****	*****	*****	0	0
2019	0	0	0	0	0
<b>Pasireotide Diaspartate</b>					
2012	0	0	0	0	0
2013	21	*****	*****	*****	0
2014	21	*****	*****	*****	0
2015	15	*****	*****	*****	0
2016	29	16	13	0	0
2017	*****	*****	*****	0	0
2018	*****	*****	*****	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Peginesatide</b>					
2012	7,646	1,524	2,240	1,380	2502
2013	5,327	950	1,522	1,002	1853
2014	*****	*****	*****	*****	0
2015	21	*****	*****	*****	0
2016	19	*****	*****	0	0
2017	*****	*****	*****	0	0
2018	0	0	0	0	0
2019	0	0	0	0	0
<b>Perampanel</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	1,211	131	186	894	0
2015	1,310	145	943	222	0
2016	1,416	176	1,240	0	0
2017	1,365	1,058	307	0	0
2018	399	399	0	0	0
2019	0	0	0	0	0
<b>Pertuzumab</b>					
2012	*****	61	79	*****	36
2013	697	195	248	221	33
2014	3,781	887	1,120	1,774	0
2015	4,270	870	2,689	711	0
2016	4,521	*****	3,623	*****	0
2017	4,550	3,237	1,313	0	0
2018	1,606	1,606	0	0	0
2019	*****	*****	*****	0	0
<b>Ponatinib</b>					
2012	0	0	0	0	0
2013	312	95	82	93	42
2014	104	44	25	35	0
2015	125	58	55	12	0
2016	165	72	93	0	0
2017	159	135	24	0	0
2018	63	63	0	0	0
2019	0	0	0	0	0
<b>Regorafenib</b>					
2012	687	542	128	*****	*****
2013	2,145	1,600	467	*****	*****
2014	1,863	1,429	371	63	0
2015	1,821	1,358	448	15	0
2016	1,281	972	309	0	0
2017	1,514	1,379	135	0	0
2018	406	406	0	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Tafuprost</b>					
2012	3,542	*****	707	*****	1972
2013	6,159	681	1,072	3,106	1300
2014	4,503	388	808	3,307	0
2015	4,047	330	2,654	1,063	0
2016	3,969	*****	3,497	*****	0
2017	3,647	2,600	1,047	0	0
2018	1,869	1,869	0	0	0
2019	0	0	0	0	0
<b>Taliglucerase Alfa</b>					
2012	*****	*****	*****	0	*****
2013	*****	0	0	*****	*****
2014	23	*****	*****	*****	0
2015	21	*****	*****	*****	0
2016	63	15	48	0	0
2017	78	44	34	0	0
2018	*****	*****	*****	0	0
2019	0	0	0	0	0
<b>Tbo-Filgrastim</b>					
2012	0	0	0	0	0
2013	0	0	0	0	0
2014	3,847	1,572	1,128	1,147	0
2015	6,606	2,541	3,415	650	0
2016	7,541	2,911	4,630	0	0
2017	7,325	5,795	1,530	0	0
2018	2,470	2,470	0	0	0
2019	0	0	0	0	0
<b>Teduglutide</b>					
2012	0	0	0	0	0
2013	107	*****	*****	61	*****
2014	99	*****	*****	68	0
2015	127	22	78	27	0
2016	168	31	137	0	0
2017	280	232	48	0	0
2018	73	73	0	0	0
2019	0	0	0	0	0
<b>Teriflunomide</b>					
2012	285	44	60	39	142
2013	2,303	299	415	1,176	413
2014	2,072	248	417	1,407	0
2015	2,719	345	1,835	539	0
2016	3,124	458	2,666	0	0
2017	2,625	1,860	765	0	0
2018	790	790	0	0	0
2019	0	0	0	0	0

**Table 3b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Year**

Year	Number of New Users <sup>1</sup>	Counts of New Users by Length of Follow-Up Time in Years <sup>2</sup>			
		< 1	1-2	3-4	5+
<b>Tofacitinib</b>					
2012	*****	12	*****	*****	44
2013	2,891	429	626	1,494	342
2014	4,063	499	931	2,633	0
2015	4,334	534	2,891	909	0
2016	3,396	*****	2,864	*****	0
2017	2,621	1,967	654	0	0
2018	831	*****	*****	0	0
2019	*****	*****	0	0	0
<b>Vismodegib</b>					
2012	291	65	76	61	89
2013	539	106	160	228	45
2014	563	124	170	269	0
2015	711	128	474	109	0
2016	764	162	602	0	0
2017	820	627	193	0	0
2018	247	247	0	0	0
2019	0	0	0	0	0
<b>Ziv-Aflibercept</b>					
2012	*****	*****	*****	0	0
2013	334	192	125	*****	*****
2014	684	428	214	42	0
2015	424	258	150	16	0
2016	231	147	84	0	0
2017	167	*****	*****	0	0
2018	*****	*****	0	0	0
2019	0	0	0	0	0

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

<sup>2</sup>Some follow-up time categories were combined and converted to years during the reporting process. Below are the time categories in days from the specifications and the corresponding time categories reported in years:

- 1-364 days = <1 year
- 365-729 and 730-1094 = 1-2 years
- 1095-1459 and 1460-1824 = 3-4 years
- 1825+ = 5+ years

\*\*\*\*\*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 4a. Summary of New Users of New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Acidinium Bromide</b>				
Female	57,142	61,327,179	174,592,003.1	0.93
Male	46,831	55,288,342	148,926,926.0	0.85
Other	13	3,373	7,633.1	3.85
<b>Apixaban</b>				
Female	635,722	61,278,987	173,772,003.5	10.37
Male	556,908	55,230,489	148,172,714.4	10.08
Other	18	3,374	7,626.4	5.33
<b>Avanafil</b>				
Female	11	61,330,293	174,752,362.6	0.00
Male	15,348	55,290,911	149,023,395.1	0.28
Other	0	3,374	7,660.1	0.00
<b>Axitinib</b>				
Female	1,212	61,330,211	174,750,669.0	0.02
Male	2,816	55,291,329	149,051,481.9	0.05
Other	0	3,374	7,660.1	0.00
<b>Bedaquiline</b>				
Female	24	61,330,294	174,752,330.0	0.00
Male	15	55,291,552	149,055,452.7	0.00
Other	0	3,374	7,660.1	0.00
<b>Bosutinib</b>				
Female	750	61,330,206	174,750,723.5	0.01
Male	708	55,291,476	149,054,149.2	0.01
Other	0	3,374	7,660.1	0.00
<b>Cabozantinib</b>				
Female	0	61,330,295	174,752,375.0	0.00
Male	0	55,291,554	149,055,472.4	0.00
Other	0	3,374	7,660.1	0.00
<b>Carfilzomib</b>				
Female	0	61,330,295	174,752,375.0	0.00
Male	0	55,291,554	149,055,472.4	0.00
Other	0	3,374	7,660.1	0.00
<b>Choline C 11</b>				
Female	*****	61,330,295	174,752,372.3	*****
Male	*****	55,291,518	149,053,929.5	*****
Other	0	3,374	7,660.1	0.00
<b>Crofelemer</b>				
Female	82	61,330,293	174,752,188.4	0.00
Male	800	55,291,517	149,053,556.7	0.01
Other	0	3,374	7,660.1	0.00
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>				
Female	*****	61,329,332	174,737,613.5	*****
Male	16,152	55,286,313	149,002,816.9	0.29
Other	*****	3,374	7,648.8	*****

**Table 4a. Summary of New Users of New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Enzalutamide</b>				
Female	*****	61,330,294	174,752,319.0	*****
Male	34,107	55,289,516	149,009,815.4	0.62
Other	*****	3,374	7,651.9	*****
<b>Florbetapir F 18</b>				
Female	3,586	61,330,271	174,748,734.3	0.06
Male	*****	55,291,517	149,052,060.2	*****
Other	*****	3,374	7,659.5	*****
<b>Glucarpidase</b>				
Female	*****	61,330,295	174,752,374.4	*****
Male	*****	55,291,554	149,055,469.4	*****
Other	0	3,374	7,660.1	0.00
<b>Ingenol Mebutate</b>				
Female	33,812	61,329,893	174,675,592.8	0.55
Male	40,186	55,291,027	148,957,275.5	0.73
Other	0	3,374	7,660.0	0.00
<b>Ivacaftor</b>				
Female	329	61,330,151	174,751,498.6	0.01
Male	286	55,291,404	149,054,627.2	0.01
Other	0	3,374	7,660.1	0.00
<b>Linaclotide</b>				
Female	385,377	61,303,875	173,991,342.6	6.29
Male	*****	55,283,898	148,788,138.5	*****
Other	*****	3,374	7,655.1	*****
<b>Lomitapide</b>				
Female	366	61,330,282	174,751,137.8	0.01
Male	171	55,291,538	149,054,930.7	0.00
Other	0	3,374	7,660.1	0.00
<b>Lorcaserin Hydrochloride</b>				
Female	12,627	61,329,779	174,727,831.7	0.21
Male	*****	55,291,431	149,049,091.9	*****
Other	*****	3,374	7,657.2	*****
<b>Lucinactant</b>				
Female	0	61,330,295	174,752,375.0	0.00
Male	0	55,291,554	149,055,472.4	0.00
Other	0	3,374	7,660.1	0.00
<b>Mirabegron</b>				
Female	347,091	61,310,243	174,083,967.6	5.66
Male	*****	55,282,570	148,753,867.4	*****
Other	*****	3,374	7,650.4	*****
<b>Sodium Picosulfate/ Magnesium Oxide/ Citric Acid</b>				
Female	163,173	61,328,042	174,447,602.2	2.66
Male	*****	55,289,964	148,840,182.7	*****
Other	*****	3,374	7,649.8	*****

**Table 4a. Summary of New Users of New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Ocriplasmin</b>				
Female	2,224	61,330,290	174,746,903.9	0.04
Male	1,113	55,291,552	149,052,764.0	0.02
Other	0	3,374	7,660.1	0.00
<b>Omacetaxine Mepesuccinate</b>				
Female	82	61,330,293	174,752,223.1	0.00
Male	88	55,291,551	149,055,348.1	0.00
Other	0	3,374	7,660.1	0.00
<b>Pasireotide Diaspartate</b>				
Female	70	61,330,284	174,752,232.5	0.00
Male	33	55,291,552	149,055,422.3	0.00
Other	0	3,374	7,660.1	0.00
<b>Peginesatide</b>				
Female	6,649	61,330,252	174,730,893.6	0.11
Male	6,387	55,291,495	149,034,155.5	0.12
Other	0	3,374	7,660.1	0.00
<b>Perampanel</b>				
Female	3,011	61,330,017	174,746,604.9	0.05
Male	2,690	55,291,287	149,050,309.5	0.05
Other	0	3,374	7,660.1	0.00
<b>Pertuzumab</b>				
Female	19,351	61,328,763	174,718,658.8	0.32
Male	277	55,291,539	149,055,109.5	0.01
Other	0	3,374	7,660.1	0.00
<b>Ponatinib</b>				
Female	451	61,330,251	174,751,511.1	0.01
Male	477	55,291,495	149,054,662.8	0.01
Other	0	3,374	7,660.1	0.00
<b>Regorafenib</b>				
Female	4,294	61,330,018	174,749,049.6	0.07
Male	5,423	55,291,184	149,051,369.6	0.10
Other	0	3,374	7,660.1	0.00
<b>Tafluprost</b>				
Female	19,041	61,328,200	174,695,613.9	0.31
Male	8,695	55,290,555	149,030,628.1	0.16
Other	0	3,374	7,660.1	0.00
<b>Taliglucerase Alfa</b>				
Female	113	61,330,291	174,752,182.5	0.00
Male	88	55,291,547	149,055,316.2	0.00
Other	0	3,374	7,660.1	0.00
<b>Tbo-Filgrastim</b>				
Female	15,820	61,329,886	174,732,397.5	0.26
Male	*****	55,291,254	149,041,742.5	*****
Other	*****	3,374	7,656.6	*****

**Table 4a. Summary of New Users of New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Teduglutide</b>				
Female	614	61,330,217	174,751,274.7	0.01
Male	240	55,291,511	149,054,987.6	0.00
Other	0	3,374	7,660.1	0.00
<b>Teriflunomide</b>				
Female	10,916	61,328,282	174,725,519.3	0.18
Male	*****	55,290,969	149,048,031.3	*****
Other	*****	3,374	7,658.6	*****
<b>Tofacitinib</b>				
Female	15,083	61,328,636	174,715,432.4	0.25
Male	3,145	55,291,140	149,047,987.1	0.06
Other	0	3,374	7,660.1	0.00
<b>Vismodegib</b>				
Female	1,553	61,330,227	174,749,470.5	0.03
Male	2,382	55,291,412	149,050,787.1	0.04
Other	0	3,374	7,660.1	0.00
<b>Ziv-Aflibercept</b>				
Female	851	61,330,238	174,751,451.9	0.01
Male	1,037	55,291,491	149,054,365.7	0.02
Other	0	3,374	7,660.1	0.00

<sup>1</sup>Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

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

**Table 4b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Acidinium Bromide</b>					
Female	57,142	10,219	21,991	23,383	1,549
Male	46,831	*****	*****	*****	1,211
Other	13	*****	*****	*****	0
<b>Apixaban</b>					
Female	635,722	284,504	281,086	69,553	579
Male	556,908	*****	*****	*****	703
Other	18	*****	*****	*****	0
<b>Avanafil</b>					
Female	11	*****	*****	*****	0
Male	15,348	*****	*****	*****	0
Other	0	0	0	0	0
<b>Axitinib</b>					
Female	1,212	681	421	92	18
Male	2,816	1,543	1,007	234	32
Other	0	0	0	0	0
<b>Bedaquiline</b>					
Female	24	*****	*****	*****	0
Male	15	*****	*****	*****	0
Other	0	0	0	0	0
<b>Bosutinib</b>					
Female	750	262	278	172	38
Male	708	277	305	114	12
Other	0	0	0	0	0
<b>Cabozantinib</b>					
Female	0	0	0	0	0
Male	0	0	0	0	0
Other	0	0	0	0	0
<b>Carfilzomib</b>					
Female	0	0	0	0	0
Male	0	0	0	0	0
Other	0	0	0	0	0
<b>Choline C 11</b>					
Female	*****	*****	*****	0	0
Male	*****	*****	*****	0	0
Other	0	0	0	0	0
<b>Crofelemer</b>					
Female	82	*****	38	*****	0
Male	800	*****	284	289	*****
Other	0	0	0	0	0
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>					
Female	*****	833	1,859	*****	*****
Male	16,152	3,452	6,504	5,132	1,064
Other	*****	0	0	*****	*****

**Table 4b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Enzalutamide</b>					
Female	****	****	15	****	0
Male	34,107	17,732	14,008	2,251	116
Other	****	****	0	****	0
<b>Florbetapir F 18</b>					
Female	3,586	1,983	1,566	****	****
Male	****	****	****	****	****
Other	****	****	****	0	0
<b>Glucarpidase</b>					
Female	****	****	****	0	0
Male	****	****	****	0	0
Other	0	0	0	0	0
<b>Ingenol Mebutate</b>					
Female	33,812	9,879	13,009	8,857	2,067
Male	40,186	10,462	15,169	11,366	3,189
Other	0	0	0	0	0
<b>Ivacaftor</b>					
Female	329	166	88	48	27
Male	286	123	92	36	35
Other	0	0	0	0	0
<b>Linacotide</b>					
Female	385,377	133,164	169,062	79,784	3,367
Male	****	****	****	26,789	996
Other	****	****	****	0	0
<b>Lomitapide</b>					
Female	366	36	106	213	11
Male	171	31	49	91	0
Other	0	0	0	0	0
<b>Lorcaserin Hydrochloride</b>					
Female	12,627	4,438	5,216	2,931	42
Male	****	****	****	765	****
Other	****	****	****	0	****
<b>Lucinactant</b>					
Female	0	0	0	0	0
Male	0	0	0	0	0
Other	0	0	0	0	0
<b>Mirabegron</b>					
Female	347,091	121,516	154,677	67,751	3,147
Male	****	****	****	29,358	1,527
Other	****	****	****	0	0
<b>Sodium Picosulfate/Magnesium Oxide Citric Acid</b>					
Female	163,173	56,179	71,853	33,007	2,134
Male	****	****	****	23,094	1,448
Other	****	****	****	0	0

**Table 4b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Ocriplasmin</b>					
Female	2,224	*****	989	844	*****
Male	1,113	*****	492	415	*****
Other	0	0	0	0	0
<b>Omacetaxine Mepesuccinate</b>					
Female	82	37	26	*****	*****
Male	88	45	28	*****	*****
Other	0	0	0	0	0
<b>Pasireotide Diaspartate</b>					
Female	70	33	*****	*****	0
Male	33	19	*****	*****	0
Other	0	0	0	0	0
<b>Peginesatide</b>					
Female	6,649	1,310	1,953	1,242	2,144
Male	6,387	1,183	1,838	1,155	2,211
Other	0	0	0	0	0
<b>Perampanel</b>					
Female	3,011	1,004	1,439	568	0
Male	2,690	905	1,237	548	0
Other	0	0	0	0	0
<b>Pertuzumab</b>					
Female	19,351	7,603	8,974	*****	*****
Male	277	150	98	*****	*****
Other	0	0	0	0	0
<b>Ponatinib</b>					
Female	451	215	140	71	25
Male	477	252	139	69	17
Other	0	0	0	0	0
<b>Regorafenib</b>					
Female	4,294	3,391	828	*****	*****
Male	5,423	4,295	1,030	*****	*****
Other	0	0	0	0	0
<b>Tafluprost</b>					
Female	19,041	4,455	6,687	5,549	2,350
Male	8,695	2,257	3,098	2,418	922
Other	0	0	0	0	0
<b>Taliglucerase Alfa</b>					
Female	113	*****	54	*****	*****
Male	88	*****	*****	*****	*****
Other	0	0	0	0	0
<b>Tbo-Filgrastim</b>					
Female	15,820	8,377	*****	*****	0
Male	*****	*****	*****	*****	0
Other	*****	*****	*****	0	0

**Table 4b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Sex**

Sex	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Teduglutide</b>					
Female	614	274	230	*****	*****
Male	240	112	74	*****	*****
Other	0	0	0	0	0
<b>Teriflunomide</b>					
Female	10,916	3,183	4,791	2,507	435
Male	*****	861	*****	654	*****
Other	*****	0	*****	0	*****
<b>Tofacitinib</b>					
Female	15,083	3,919	6,576	4,259	329
Male	3,145	882	1,413	793	57
Other	0	0	0	0	0
<b>Vismodegib</b>					
Female	1,553	602	647	257	47
Male	2,382	857	1,028	410	87
Other	0	0	0	0	0
<b>Ziv-Aflibercept</b>					
Female	851	549	263	*****	*****
Male	1,037	668	333	*****	*****
Other	0	0	0	0	0

<sup>1</sup>Some follow-up time categories were combined and converted to years during the reporting process. Below are the time categories in days from the specifications and the corresponding time categories reported in years:

- 1-364 days = <1 year
- 365-729 and 730-1094 = 1-2 years
- 1095-1459 and 1460-1824 = 3-4 years
- 1825+ = 5+ years

\*\*\*\*\*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 5a. Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group**

Age Group (Years)	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Acidinium Bromide</b>				
0-18	27	19,632,469	44,019,350.7	0.00
19-64	32,626	66,563,392	156,811,069.9	0.49
65+	71,333	36,206,401	122,696,141.5	1.97
<b>Apixaban</b>				
0-18	211	19,632,457	44,019,242.1	0.01
19-64	159,514	66,544,622	156,681,988.8	2.40
65+	1,032,923	36,108,019	121,251,113.4	28.61
<b>Avanafil</b>				
0-18	*****	19,632,470	44,019,379.9	*****
19-64	12,750	66,565,525	156,867,301.1	0.19
65+	*****	36,214,328	122,896,736.8	*****
<b>Axitinib</b>				
0-18	*****	19,632,470	44,019,383.9	*****
19-64	*****	66,565,991	156,890,967.2	*****
65+	2,770	36,214,989	122,899,460.0	0.08
<b>Bedaquiline</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	24	66,566,119	156,892,563.0	0.00
65+	15	36,215,268	122,903,494.7	0.00
<b>Bosutinib</b>				
0-18	*****	19,632,470	44,019,384.9	*****
19-64	*****	66,566,030	156,891,501.6	*****
65+	903	36,215,140	122,901,646.3	0.02
<b>Cabozantinib</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	0	66,566,121	156,892,599.0	0.00
65+	0	36,215,270	122,903,523.4	0.00
<b>Carfilzomib</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	0	66,566,121	156,892,599.0	0.00
65+	0	36,215,270	122,903,523.4	0.00
<b>Choline C 11</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	121	66,566,114	156,892,459.3	0.00
65+	1,256	36,215,227	122,902,117.4	0.03
<b>Crofelemer</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	753	66,566,089	156,890,851.8	0.01
65+	129	36,215,218	122,903,168.3	0.00
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>				
0-18	73	19,632,462	44,019,312.4	0.00
19-64	19,403	66,560,178	156,830,568.3	0.29
65+	1,295	36,214,287	122,898,198.4	0.04

**Table 5a. Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group**

Age Group (Years)	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Enzalutamide</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	2,557	66,565,767	156,889,679.6	0.04
65+	31,626	36,213,173	122,860,721.5	0.87
<b>Florbetapir F 18</b>				
0-18	*****	19,632,470	44,019,381.5	*****
19-64	*****	66,566,121	156,892,507.9	*****
65+	6,842	36,215,207	122,896,564.6	0.19
<b>Glucarpidase</b>				
0-18	*****	19,632,470	44,019,384.8	*****
19-64	*****	66,566,121	156,892,596.0	*****
65+	*****	36,215,270	122,903,523.2	*****
<b>Ingenol Mebutate</b>				
0-18	102	19,632,465	44,019,273.8	0.01
19-64	35,563	66,565,427	156,822,153.6	0.53
65+	38,333	36,211,835	122,799,101.0	1.06
<b>Ivacaftor</b>				
0-18	186	19,632,372	44,018,937.2	0.01
19-64	378	66,565,881	156,891,386.1	0.01
65+	51	36,215,260	122,903,462.6	0.00
<b>Linaclotide</b>				
0-18	1,974	19,632,347	44,017,589.4	0.10
19-64	230,861	66,543,738	156,451,324.2	3.47
65+	296,963	36,188,163	122,318,222.6	8.21
<b>Lomitapide</b>				
0-18	*****	19,632,469	44,019,379.3	*****
19-64	*****	66,566,095	156,891,861.2	*****
65+	273	36,215,233	122,902,488.1	0.01
<b>Lorcaserin Hydrochloride</b>				
0-18	44	19,632,467	44,019,339.5	0.00
19-64	14,489	66,565,485	156,865,462.7	0.22
65+	1,387	36,214,811	122,899,778.6	0.04
<b>Lucinactant</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	0	66,566,121	156,892,599.0	0.00
65+	0	36,215,270	122,903,523.4	0.00
<b>Mirabegron</b>				
0-18	340	19,632,443	44,018,970.7	0.02
19-64	85,021	66,558,506	156,743,983.2	1.28
65+	422,744	36,184,734	122,082,531.5	11.68
<b>Sodium Picosulfate/Magnesium Oxide/Citric Acid</b>				
0-18	775	19,632,442	44,018,719.9	0.04
19-64	198,609	66,562,196	156,560,187.1	2.98
65+	80,032	36,204,473	122,716,527.7	2.21

**Table 5a. Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group**

Age Group (Years)	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Ocriplasmin</b>				
0-18	*****	19,632,470	44,019,380.1	*****
19-64	*****	66,566,118	156,892,044.0	*****
65+	3,028	36,215,198	122,895,904.1	0.08
<b>Omacetaxine Mepesuccinate</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	67	66,566,119	156,892,493.0	0.00
65+	103	36,215,260	122,903,353.2	0.00
<b>Pasireotide Diaspartate</b>				
0-18	*****	19,632,469	44,019,384.7	*****
19-64	68	66,566,112	156,892,461.5	0.00
65+	*****	36,215,264	122,903,468.7	*****
<b>Peginesatide</b>				
0-18	*****	19,632,470	44,019,374.1	*****
19-64	7,145	66,566,060	156,868,486.7	0.11
65+	*****	36,214,160	122,884,848.6	*****
<b>Perampanel</b>				
0-18	523	19,632,401	44,018,540.6	0.03
19-64	4,620	66,565,604	156,883,552.6	0.07
65+	558	36,215,124	122,902,481.4	0.02
<b>Pertuzumab</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	9,578	66,565,190	156,876,379.5	0.14
65+	10,050	36,214,116	122,885,663.8	0.28
<b>Ponatinib</b>				
0-18	*****	19,632,470	44,019,378.2	*****
19-64	493	66,566,053	156,891,694.9	0.01
65+	*****	36,215,209	122,902,760.9	*****
<b>Regorafenib</b>				
0-18	*****	19,632,470	44,019,384.3	*****
19-64	*****	66,565,790	156,889,968.1	*****
65+	6,160	36,214,806	122,898,727.0	0.17
<b>Tafluprost</b>				
0-18	23	19,632,467	44,019,341.4	0.00
19-64	4,555	66,565,419	156,881,849.6	0.07
65+	23,158	36,212,025	122,832,711.2	0.64
<b>Taliglucerase Alfa</b>				
0-18	*****	19,632,469	44,019,380.2	*****
19-64	*****	66,566,117	156,892,491.6	*****
65+	151	36,215,258	122,903,287.2	0.00
<b>Tbo-Filgrastim</b>				
0-18	36	19,632,469	44,019,342.3	0.00
19-64	7,830	66,565,819	156,883,213.0	0.12
65+	19,923	36,214,337	122,879,241.2	0.55

**Table 5a. Summary of Use for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019, by Age Group**

Age Group (Years)	Number of New Users	Eligible Members <sup>1</sup>	Eligible Member-Years <sup>1</sup>	New Users per 1,000 Eligible Members
<b>Teduglutide</b>				
0-18	*****	19,632,470	44,019,384.7	*****
19-64	507	66,566,046	156,891,617.6	0.01
65+	*****	36,215,191	122,902,920.1	*****
<b>Teriflunomide</b>				
0-18	*****	19,632,469	44,019,379.6	*****
19-64	11,487	66,563,974	156,865,320.9	0.17
65+	*****	36,214,061	122,896,508.7	*****
<b>Tofacitinib</b>				
0-18	83	19,632,463	44,019,310.8	0.00
19-64	11,395	66,564,594	156,866,783.4	0.17
65+	6,750	36,213,651	122,884,985.4	0.19
<b>Vismodegib</b>				
0-18	*****	19,632,470	44,019,382.5	*****
19-64	*****	66,566,036	156,891,181.1	*****
65+	3,246	36,215,059	122,897,354.1	0.09
<b>Ziv-Aflibercept</b>				
0-18	0	19,632,470	44,019,385.2	0.00
19-64	644	66,566,066	156,891,913.2	0.01
65+	1,244	36,215,174	122,902,179.4	0.03

<sup>1</sup>Eligible members and member-years are reflective of the number of patients that met all cohort entry criteria on at least one day during the query period.

\*\*\*\*\*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 5b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019, by Age Group**

Age Group (Years)	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Acidinium Bromide</b>					
0-18	27	*****	12	*****	0
19-64	32,626	*****	12,736	*****	794
65+	71,333	13,123	27,342	28,902	1,966
<b>Apixaban</b>					
0-18	211	118	*****	*****	0
19-64	159,514	80,253	*****	*****	160
65+	1,032,923	454,095	458,080	119,626	1,122
<b>Avanafil</b>					
0-18	*****	*****	*****	*****	0
19-64	12,750	3,744	5,831	3,175	0
65+	*****	*****	*****	*****	0
<b>Axitinib</b>					
0-18	*****	*****	0	0	0
19-64	*****	*****	407	98	17
65+	2,770	1,488	1,021	228	33
<b>Bedaquiline</b>					
0-18	0	0	0	0	0
19-64	24	*****	*****	*****	0
65+	15	*****	*****	*****	0
<b>Bosutinib</b>					
0-18	*****	*****	*****	0	0
19-64	*****	*****	*****	*****	*****
65+	903	329	365	*****	*****
<b>Cabozantinib</b>					
0-18	0	0	0	0	0
19-64	0	0	0	0	0
65+	0	0	0	0	0
<b>Carfilzomib</b>					
0-18	0	0	0	0	0
19-64	0	0	0	0	0
65+	0	0	0	0	0
<b>Choline C 11</b>					
0-18	0	0	0	0	0
19-64	121	54	67	0	0
65+	1,256	550	706	0	0
<b>Crofelemer</b>					
0-18	0	0	0	0	0
19-64	753	*****	273	*****	*****
65+	129	*****	49	*****	*****
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate</b>					
0-18	73	20	34	*****	*****
19-64	19,403	4,049	7,776	6,306	1,272
65+	1,295	216	553	*****	*****

**Table 5b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019, by Age Group**

Age Group (Years)	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Enzalutamide</b>					
0-18	0	0	0	0	0
19-64	2,557	1,463	966	110	18
65+	31,626	16,328	13,057	2,143	98
<b>Florbetapir F 18</b>					
0-18	*****	*****	*****	0	0
19-64	*****	*****	*****	*****	*****
65+	6,842	3,762	3,010	*****	*****
<b>Glucarpidase</b>					
0-18	*****	*****	*****	0	0
19-64	*****	*****	*****	0	0
65+	*****	*****	*****	0	0
<b>Ingenol Mebutate</b>					
0-18	102	65	24	*****	*****
19-64	35,563	11,798	14,171	*****	*****
65+	38,333	8,478	13,983	12,673	3,199
<b>Ivacaftor</b>					
0-18	186	73	*****	*****	*****
19-64	378	179	100	55	44
65+	51	37	*****	*****	0
<b>Linacotide</b>					
0-18	1,974	766	845	343	20
19-64	230,861	82,235	99,610	46,661	2,355
65+	296,963	103,374	132,032	59,569	1,988
<b>Lomitapide</b>					
0-18	*****	0	*****	0	*****
19-64	*****	48	*****	119	*****
65+	273	19	*****	185	*****
<b>Lorcaserin Hydrochloride</b>					
0-18	44	*****	18	*****	0
19-64	14,489	5,201	6,042	3,215	31
65+	1,387	*****	544	*****	14
<b>Lucinactant</b>					
0-18	0	0	0	0	0
19-64	0	0	0	0	0
65+	0	0	0	0	0
<b>Mirabegron</b>					
0-18	340	136	142	*****	*****
19-64	85,021	32,409	36,697	*****	*****
65+	422,744	147,427	189,511	82,109	3,697
<b>Sodium Picosulfate/Magnesium Oxide/Citric Acid</b>					
0-18	775	306	321	*****	*****
19-64	198,609	76,238	86,516	33,601	2,254
65+	80,032	20,127	36,225	*****	*****

**Table 5b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019, by Age Group**

Age Group (Years)	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Ocriplasmin</b>					
0-18	*****	*****	*****	*****	0
19-64	*****	*****	*****	*****	*****
65+	3,028	*****	1,332	1,174	*****
<b>Omacetaxine Mepesuccinate</b>					
0-18	0	0	0	0	0
19-64	67	30	*****	*****	0
65+	103	52	33	*****	*****
<b>Pasireotide Diaspartate</b>					
0-18	*****	*****	*****	0	0
19-64	68	29	*****	*****	0
65+	*****	*****	*****	*****	0
<b>Peginesatide</b>					
0-18	*****	0	*****	*****	*****
19-64	7,145	*****	*****	1,253	3,068
65+	*****	1,455	2,001	*****	*****
<b>Perampanel</b>					
0-18	523	197	241	85	0
19-64	4,620	1,488	2,176	956	0
65+	558	224	259	75	0
<b>Pertuzumab</b>					
0-18	0	0	0	0	0
19-64	9,578	3,783	4,475	1,287	33
65+	10,050	3,970	4,597	1,447	36
<b>Ponatinib</b>					
0-18	*****	0	*****	*****	*****
19-64	493	241	148	79	25
65+	*****	226	*****	*****	*****
<b>Regorafenib</b>					
0-18	*****	*****	0	0	0
19-64	*****	*****	643	*****	*****
65+	6,160	4,828	1,215	*****	*****
<b>Tafluprost</b>					
0-18	23	11	*****	*****	*****
19-64	4,555	1,396	*****	*****	*****
65+	23,158	5,305	8,093	6,924	2,836
<b>Taliglucerase Alfa</b>					
0-18	*****	*****	*****	0	0
19-64	*****	*****	*****	*****	*****
65+	151	56	81	*****	*****
<b>Tbo-Filgrastim</b>					
0-18	36	*****	19	*****	0
19-64	7,830	*****	3,187	*****	0
65+	19,923	11,135	7,497	1,291	0

**Table 5b. Summary of Follow-Up Time for New Molecular Entities Approved in 2012 in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019, by Age Group**

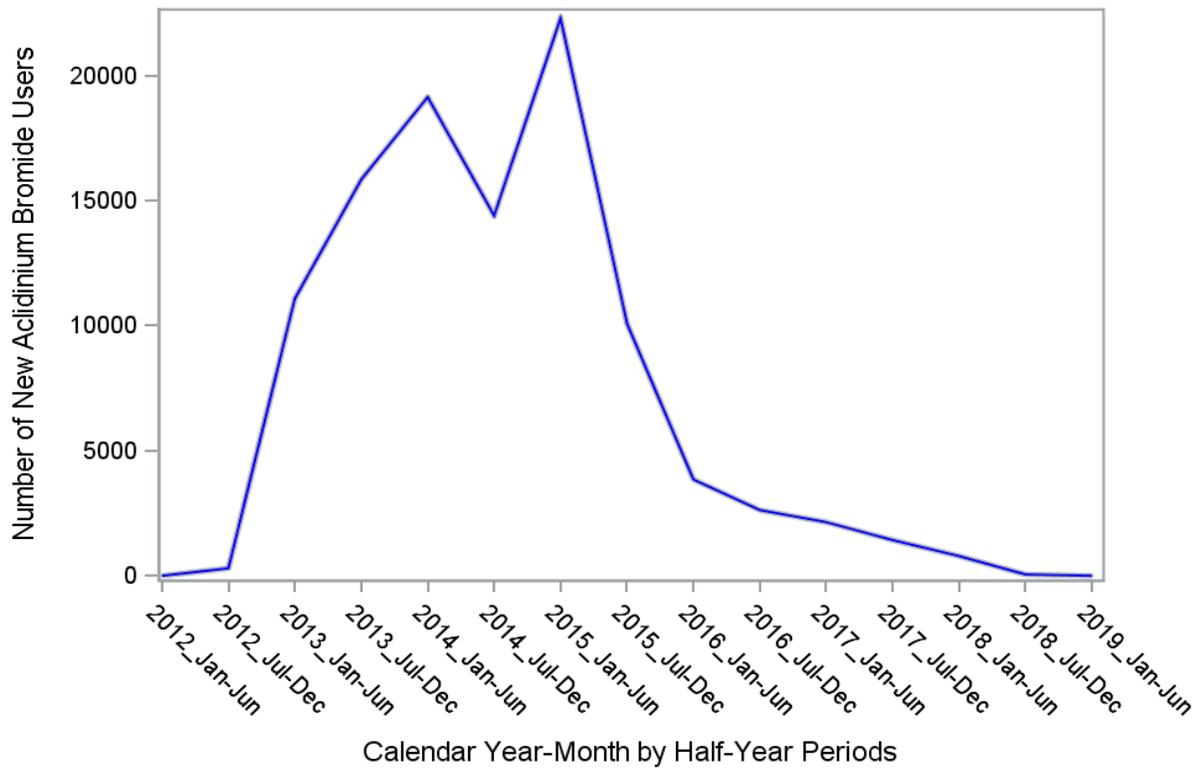
Age Group (Years)	Number of New Users	Counts of New Users by Length of Follow-Up Time in Years <sup>1</sup>			
		< 1	1-2	3-4	5+
<b>Teduglutide</b>					
0-18	*****	*****	*****	0	0
19-64	507	215	183	*****	*****
65+	*****	*****	*****	*****	*****
<b>Teriflunomide</b>					
0-18	*****	*****	*****	0	0
19-64	11,487	3,378	5,003	*****	*****
65+	*****	*****	*****	550	*****
<b>Tofacitinib</b>					
0-18	83	44	32	*****	*****
19-64	11,395	3,156	5,011	2,974	254
65+	6,750	1,601	2,946	*****	*****
<b>Vismodegib</b>					
0-18	*****	*****	*****	0	0
19-64	*****	*****	*****	*****	*****
65+	3,246	1,222	1,403	*****	*****
<b>Ziv-Aflibercept</b>					
0-18	0	0	0	0	0
19-64	644	419	196	*****	*****
65+	1,244	798	400	*****	*****

<sup>1</sup>Some follow-up time categories were combined and converted to years during the reporting process. Below are the time categories in days from the specifications and the corresponding time categories reported in years:

- 1-364 days = <1 year
- 365-729 and 730-1094 = 1-2 years
- 1095-1459 and 1460-1824 = 3-4 years
- 1825+ = 5+ years

\*\*\*\*\*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.

Figure 1a. Counts of New Acridinium Bromide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

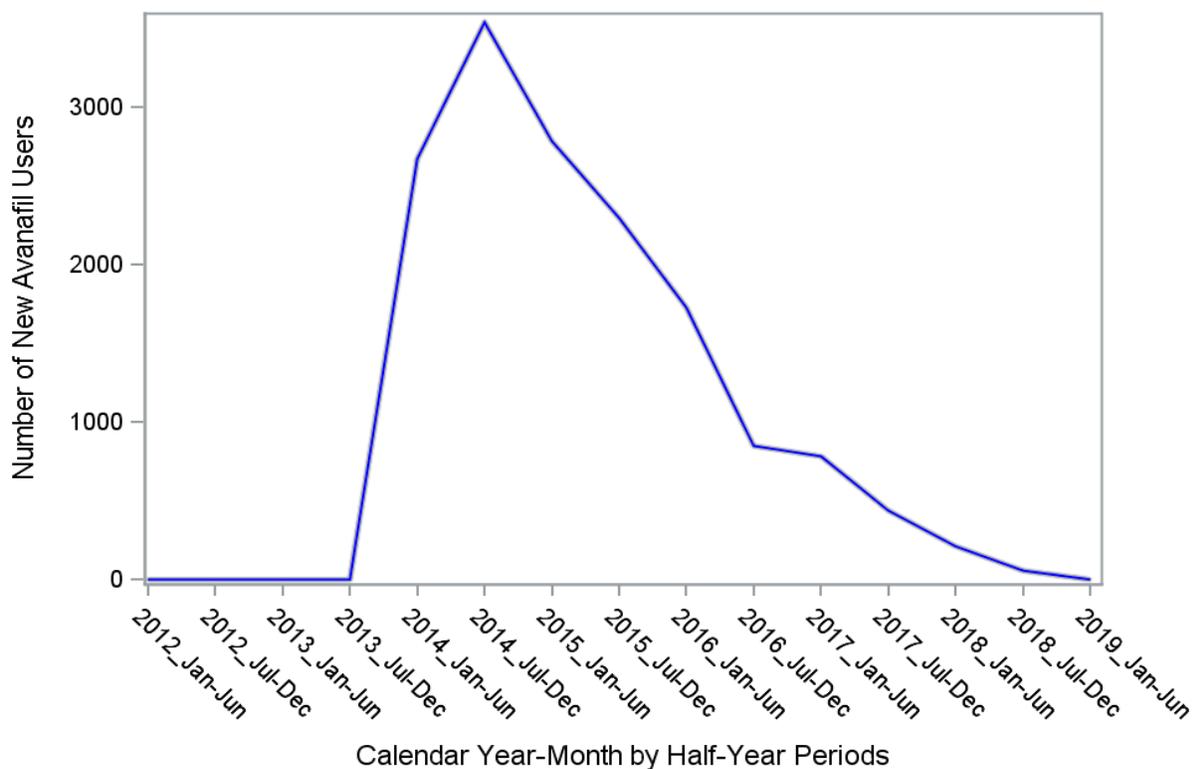
**Figure 1b. Counts of New Apixaban Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*Plot is not shown due to a small sample size

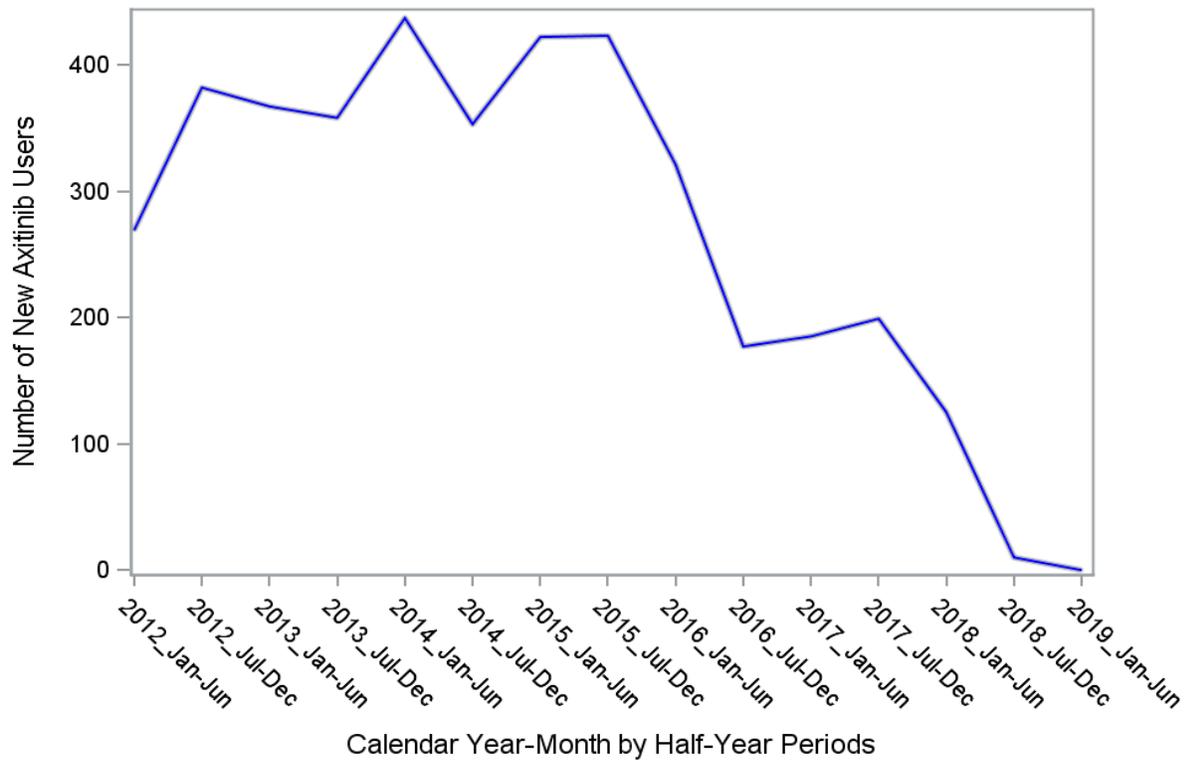
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1c. Counts of New Avanafil Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1d. Counts of New Axitinib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

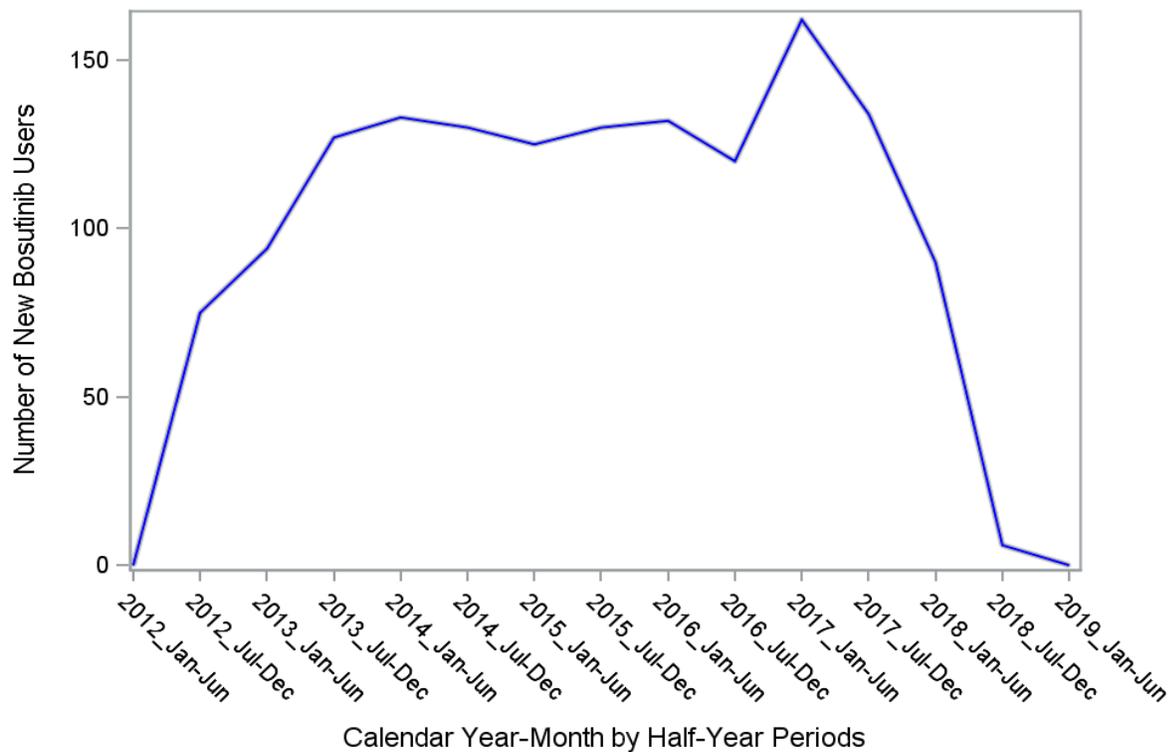
**Figure 1e. Counts of New Bedaquiline Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

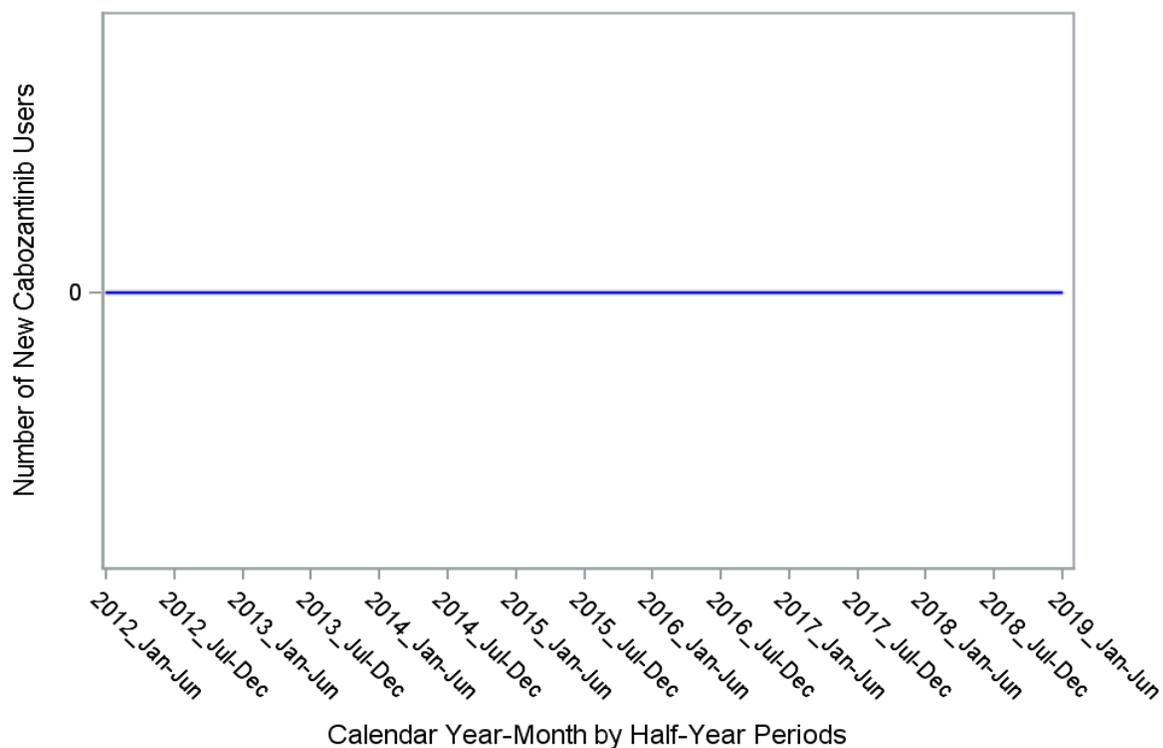
Figure 1f. Counts of New Bosutinib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1g. Counts of New Cabozantinib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>

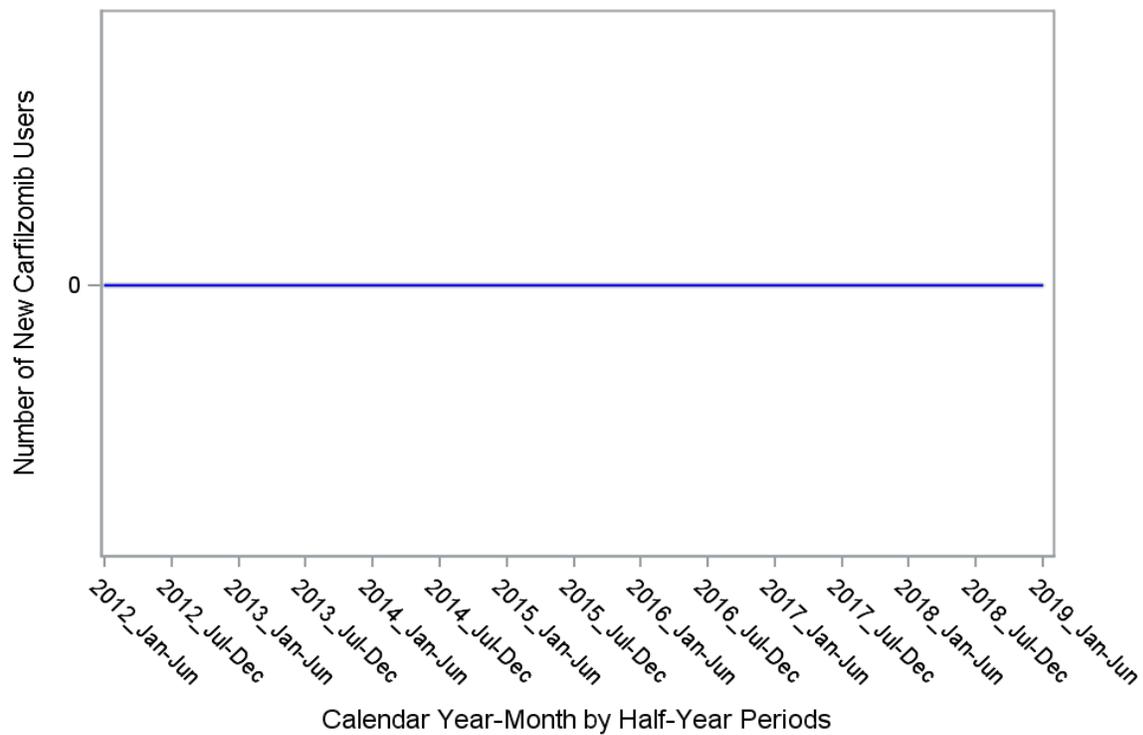
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<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

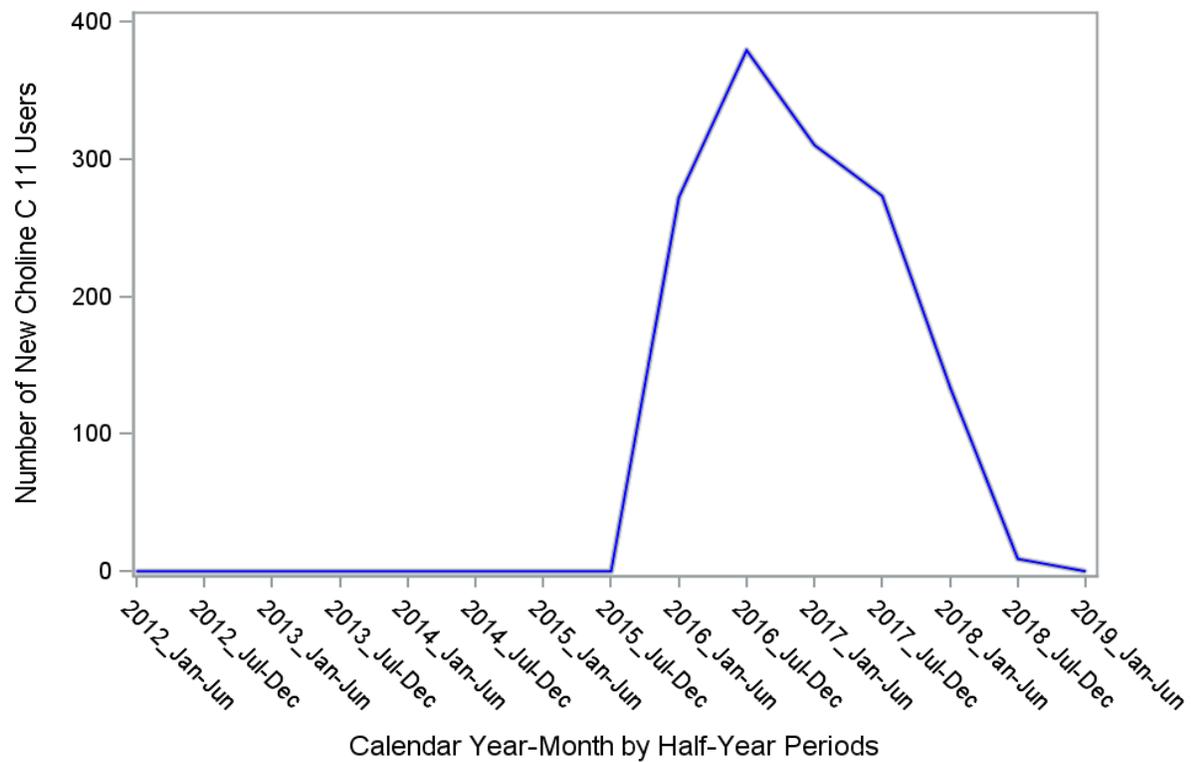
Figure 1h. Counts of New Carfilzomib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>

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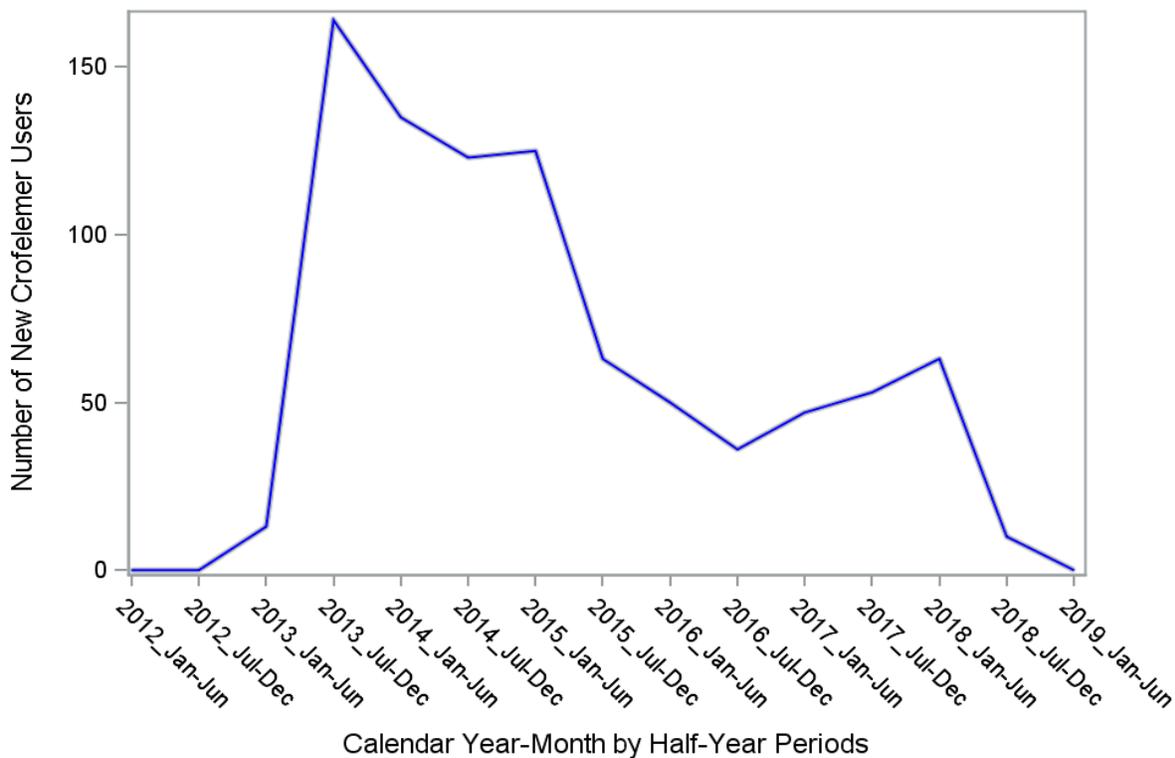
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1i. Counts of New Choline C 11 Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019<sup>1</sup>



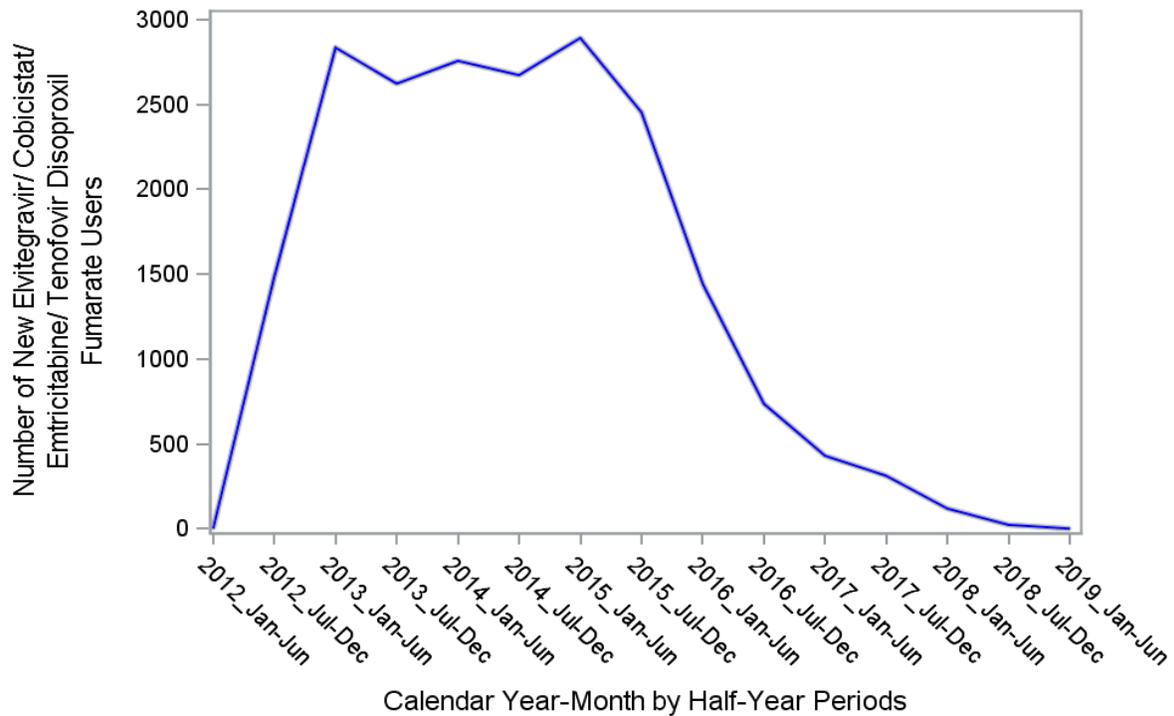
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1j. Counts of New Crofelemer Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1k. Counts of New Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil Fumarate Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

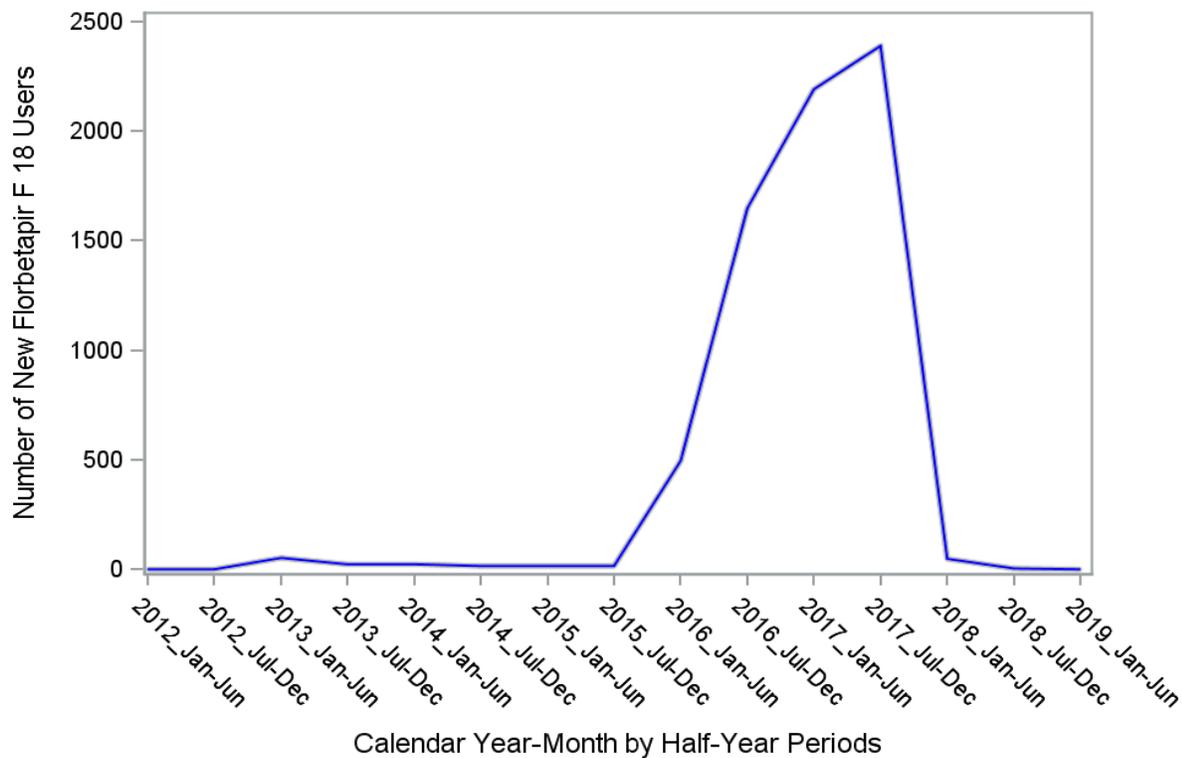
**Figure 1I. Counts of New Enzalutamide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1m. Counts of New Florbetapir F 18 Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

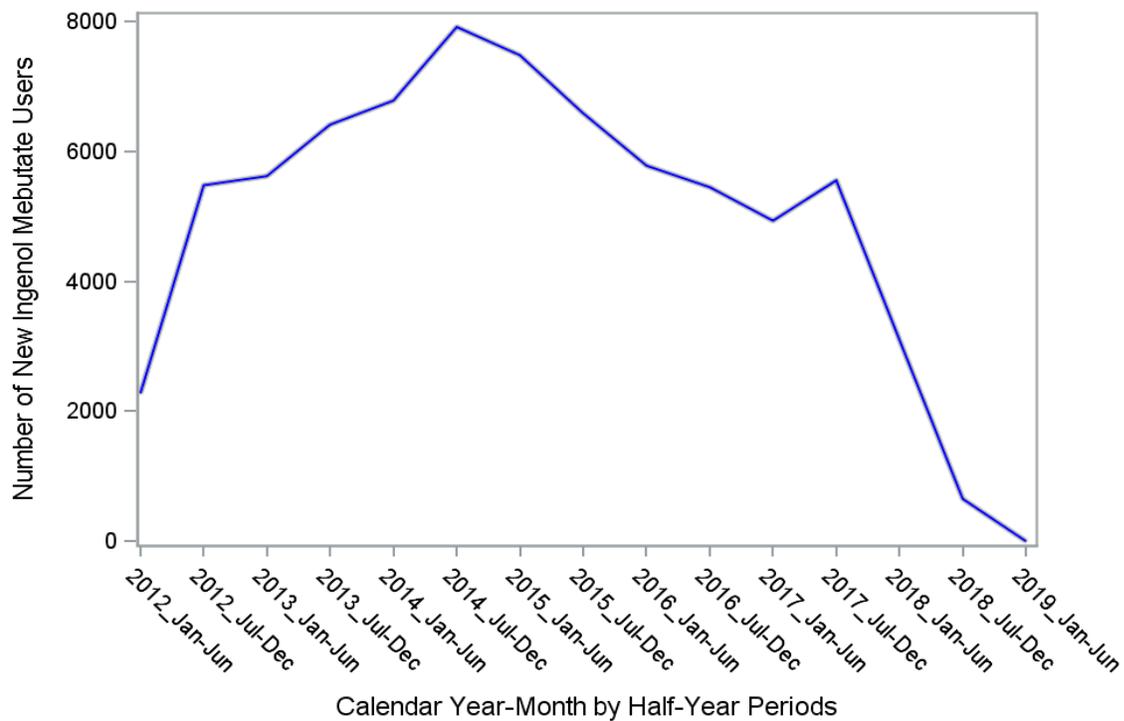
**Figure 1n. Counts of New Glucarpidase Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

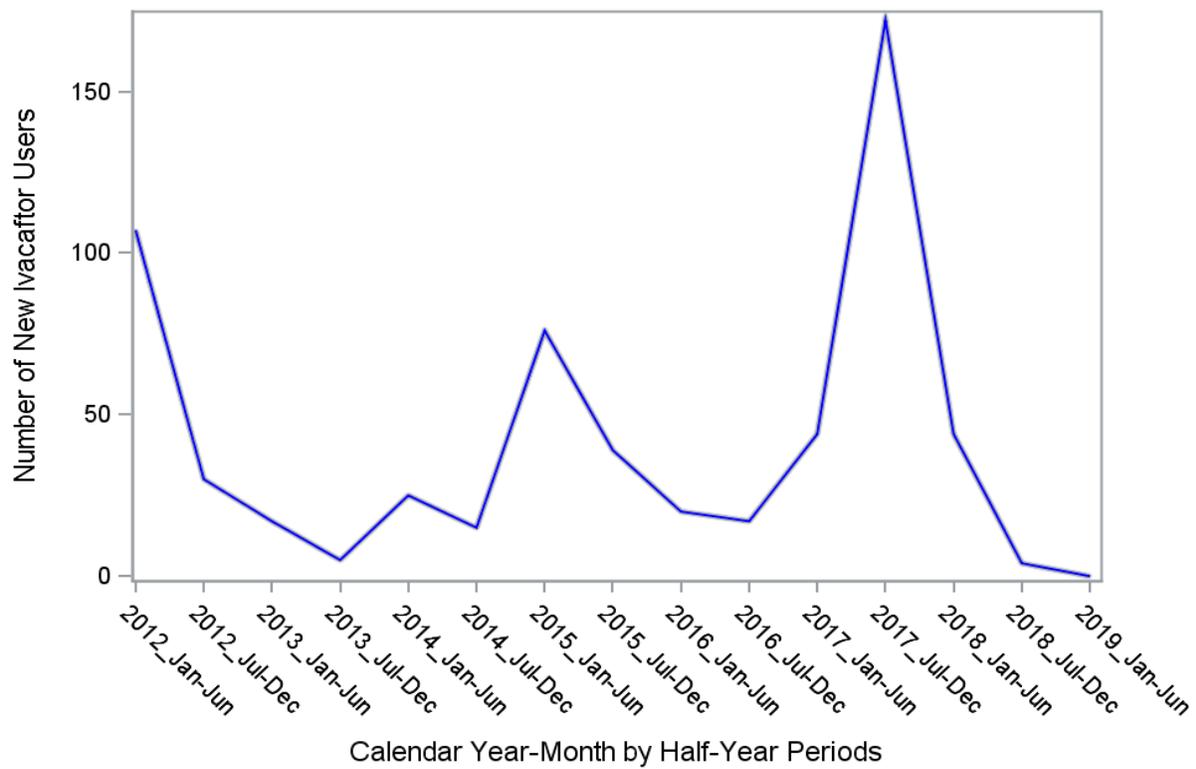
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1o. Counts of New Ingenol Mebutate Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1p. Counts of New Ivacaftor Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1q. Counts of New Linclotide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1r. Counts of New Lomitapide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

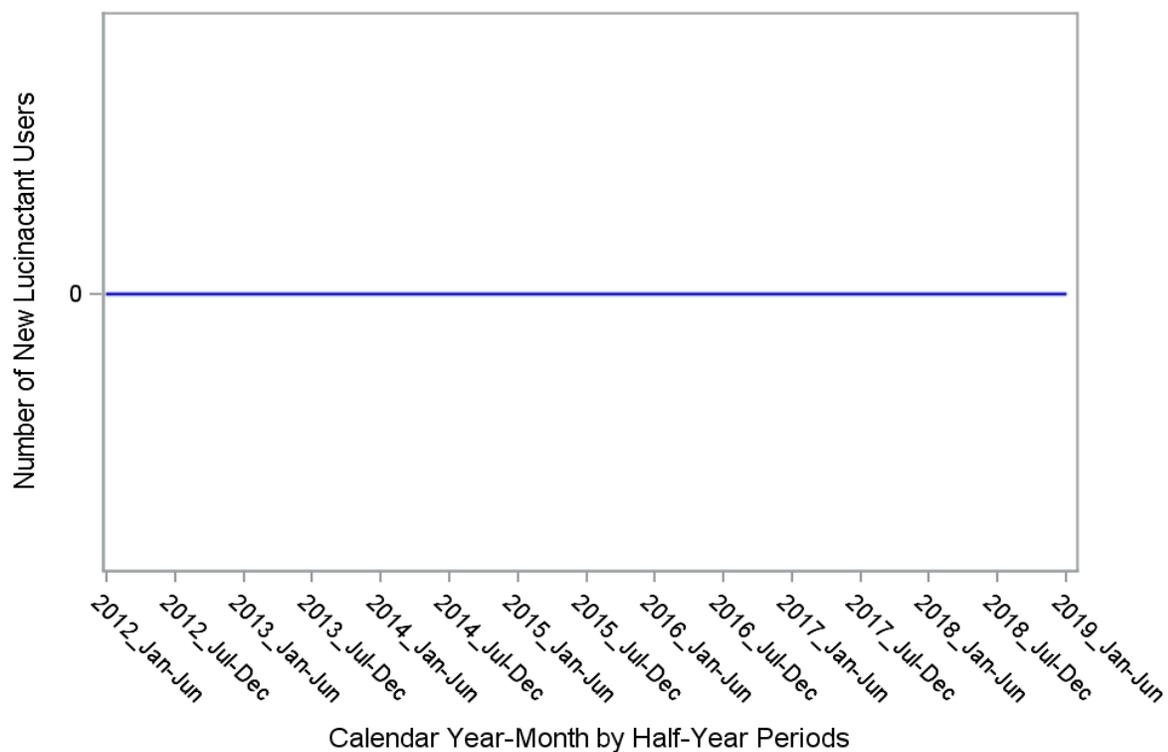
**Figure 1s. Counts of New Locaserin Hydrochloride Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1t. Counts of New Lucinactant Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1u. Counts of New Mirabegron Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

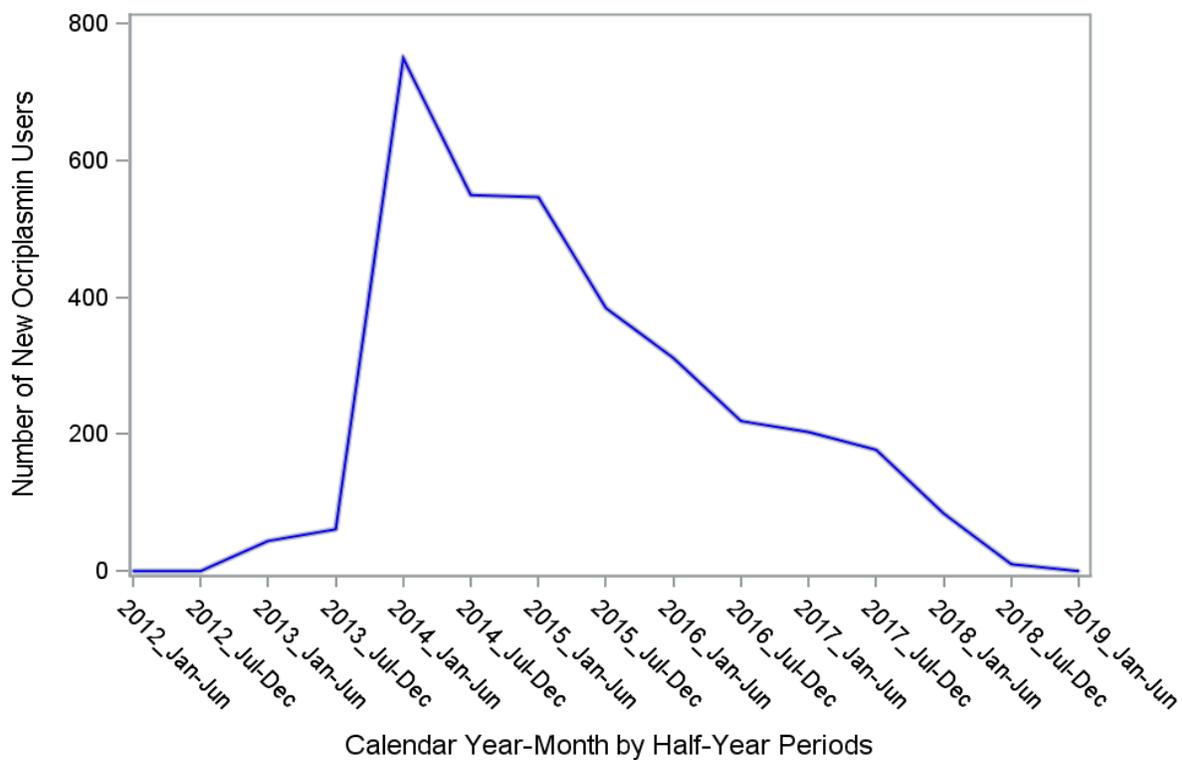
**Figure 1v. Counts of New Sodium Picosulfate/Magnesium Oxide/Citric Acid Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1w. Counts of New Ocricplasmin Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1x. Counts of New Omacetaxine Mepesuccinate Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1y. Counts of New Pasireotide Diaspartate Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

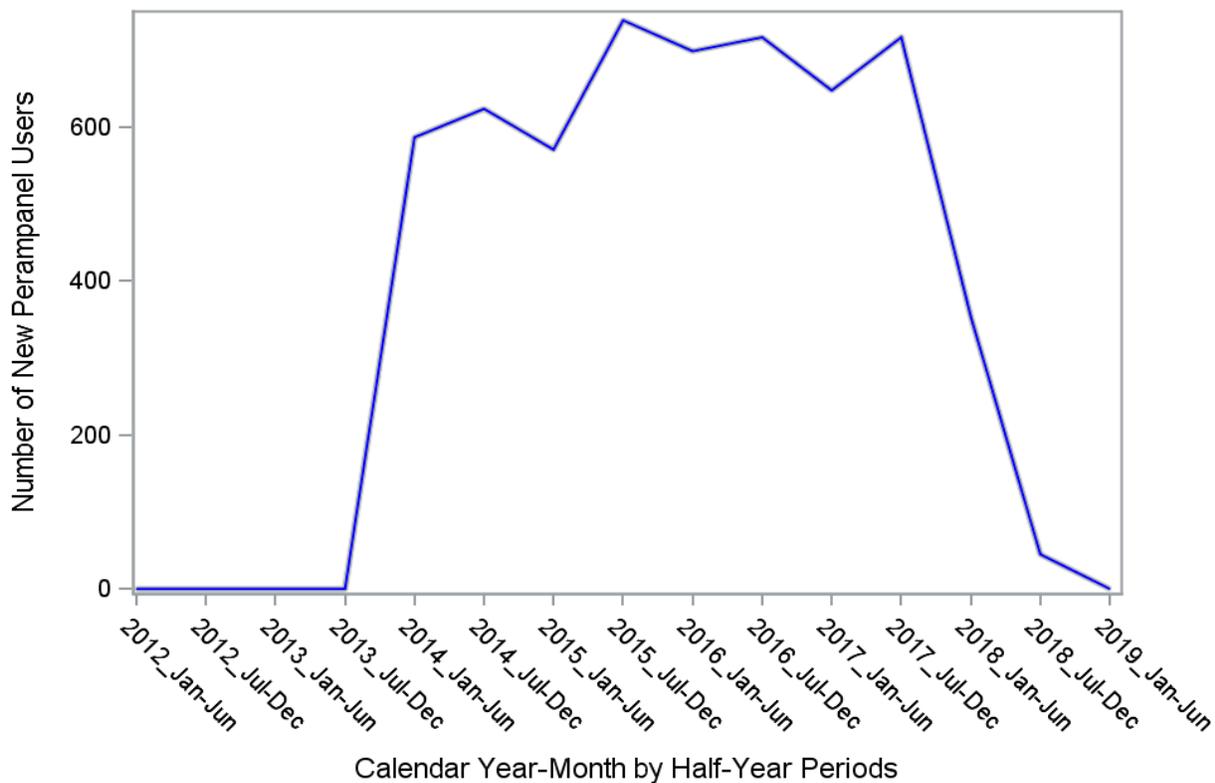
**Figure 1z. Counts of New Peginesatide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1aa. Counts of New Perampanel Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

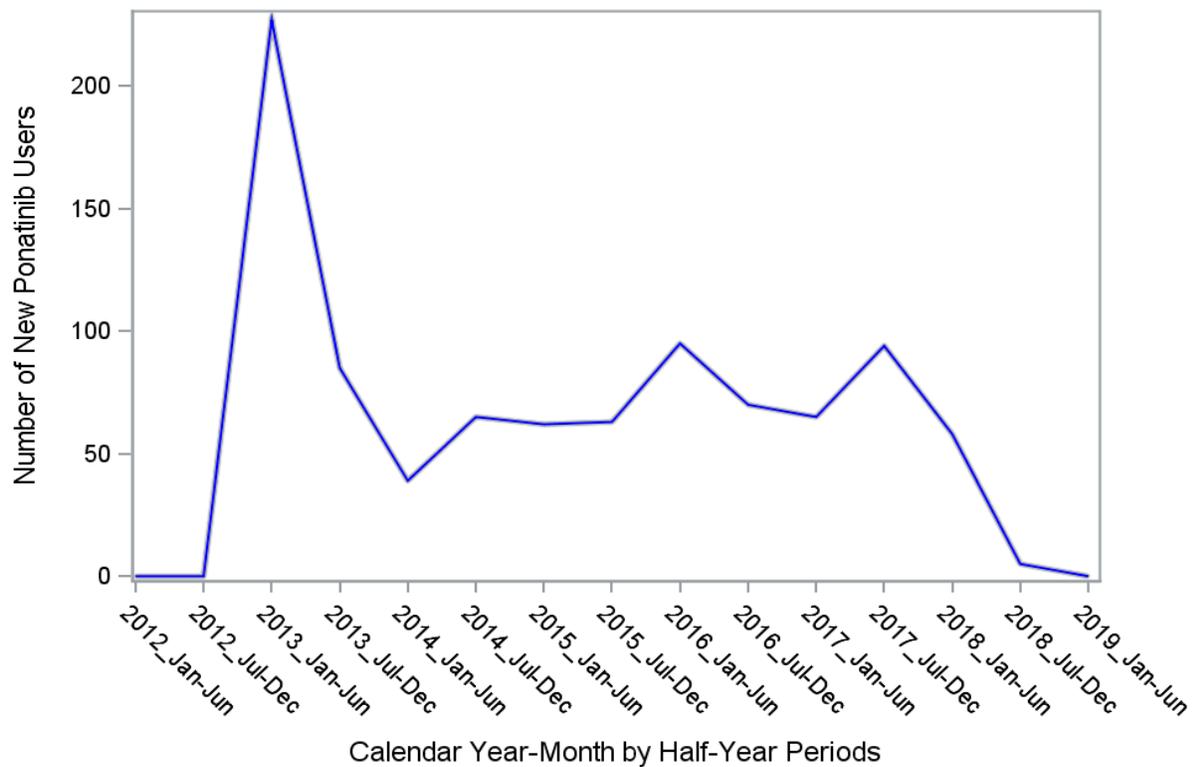
**Figure 1ab. Counts of New Peruzumab Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*Plot is not shown due to a small sample size

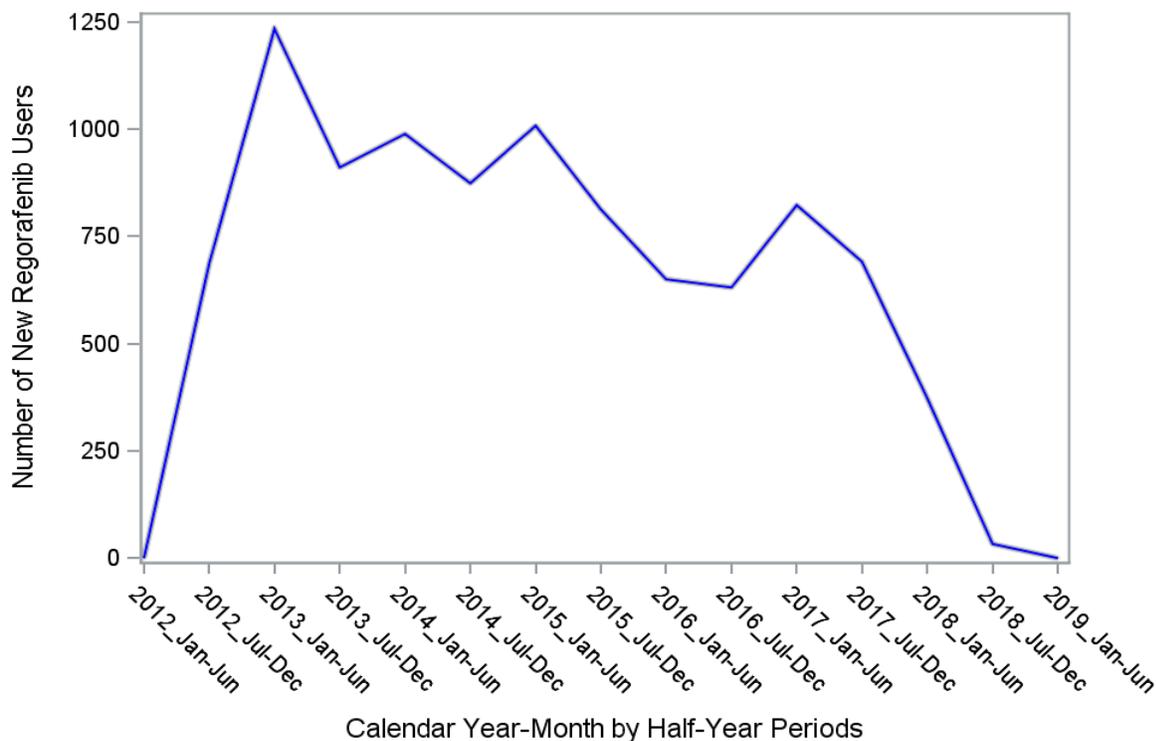
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ac. Counts of New Ponatinib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



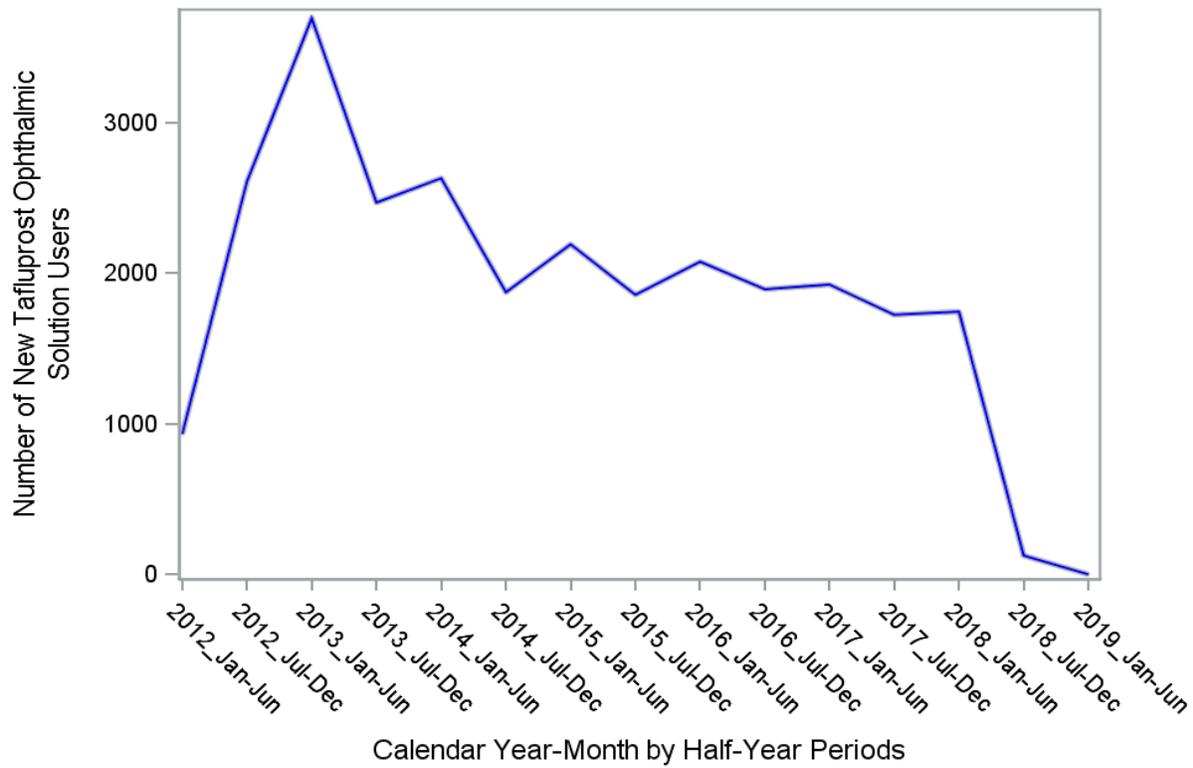
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ad. Counts of New Regorafenib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ae. Counts of New Tafluprost Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

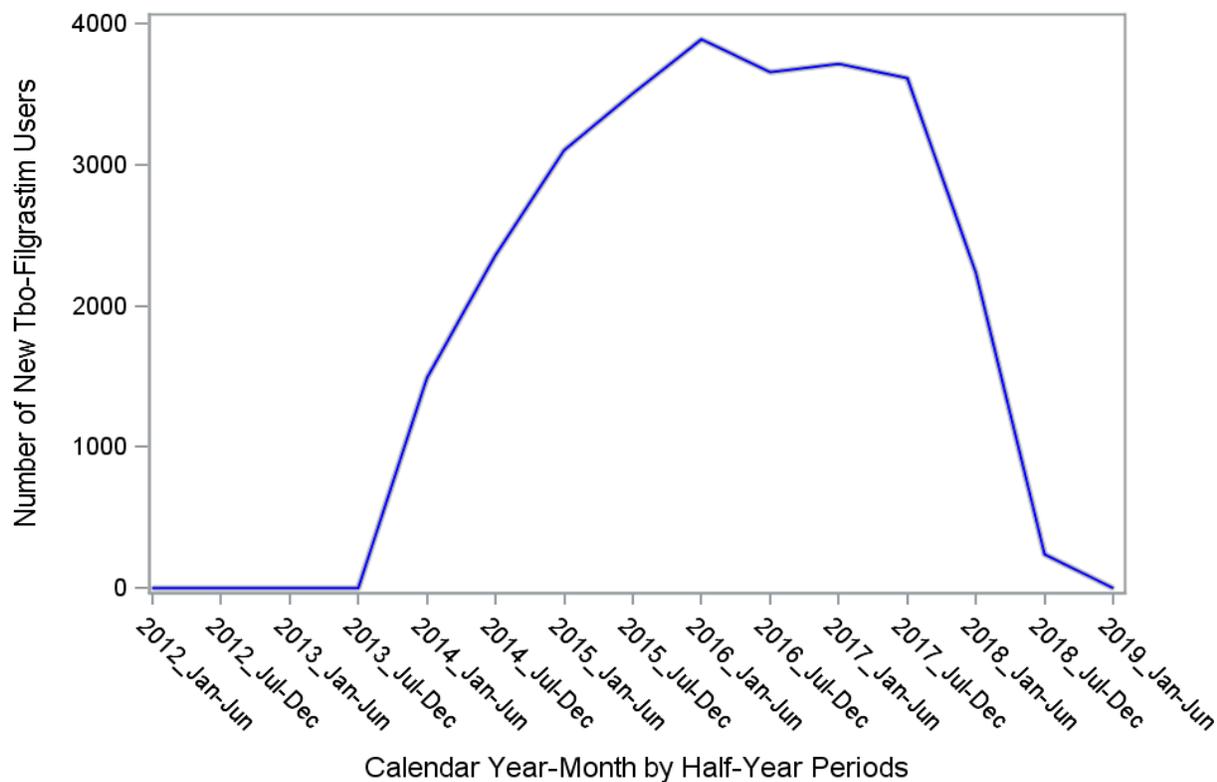
**Figure 1af. Counts of New Taliglucerase Alfa Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

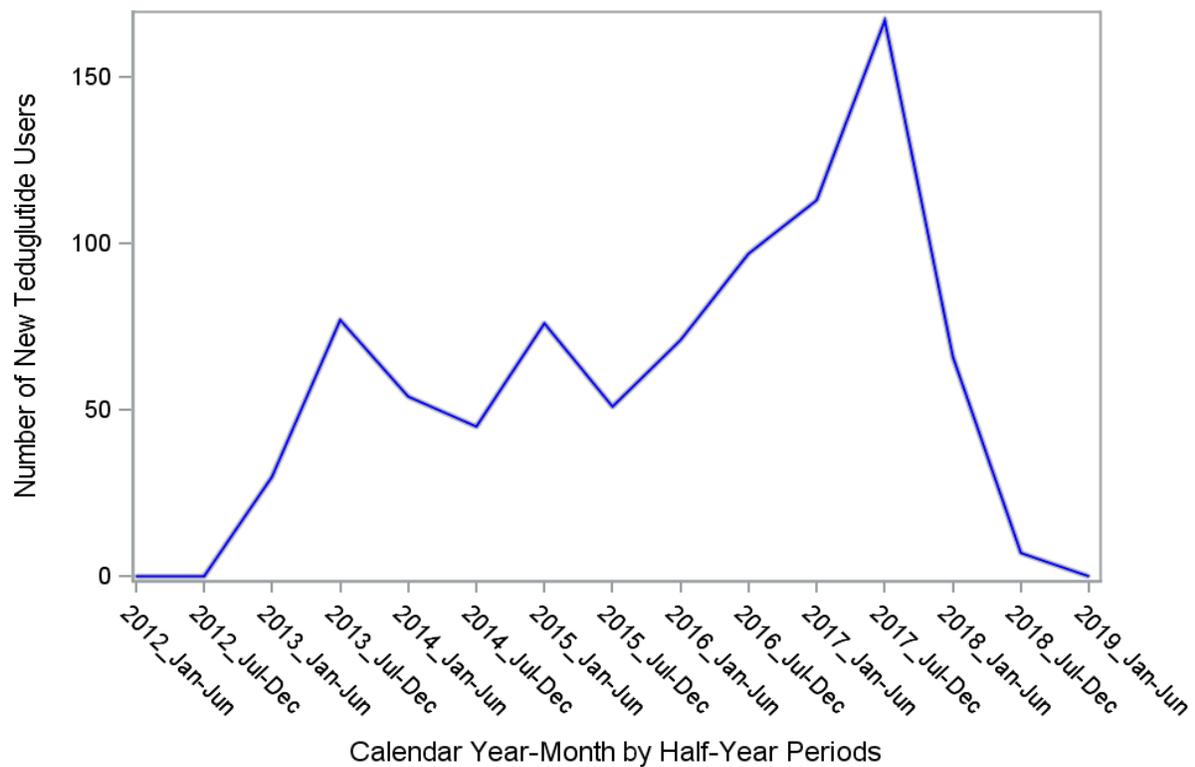
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ag. Counts of New Tbo-Filgrastim Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



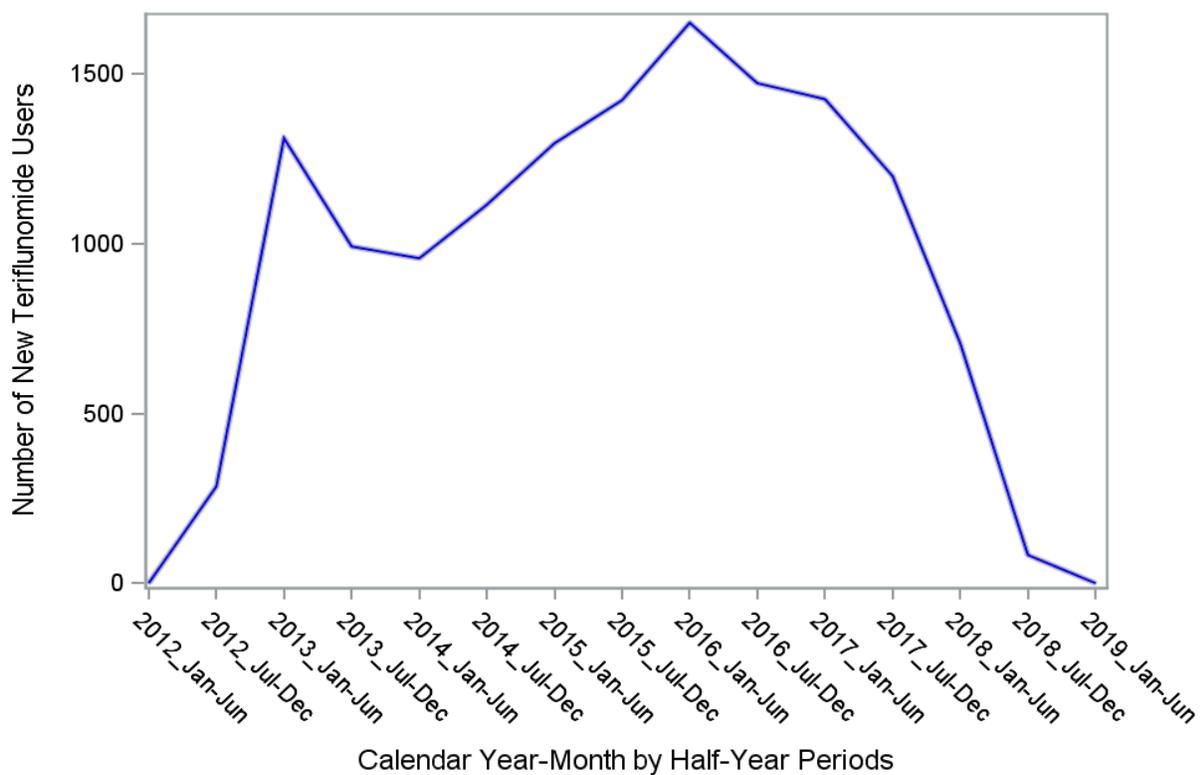
<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ah. Counts of New Teduglutide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1ai. Counts of New Teriflunomide Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

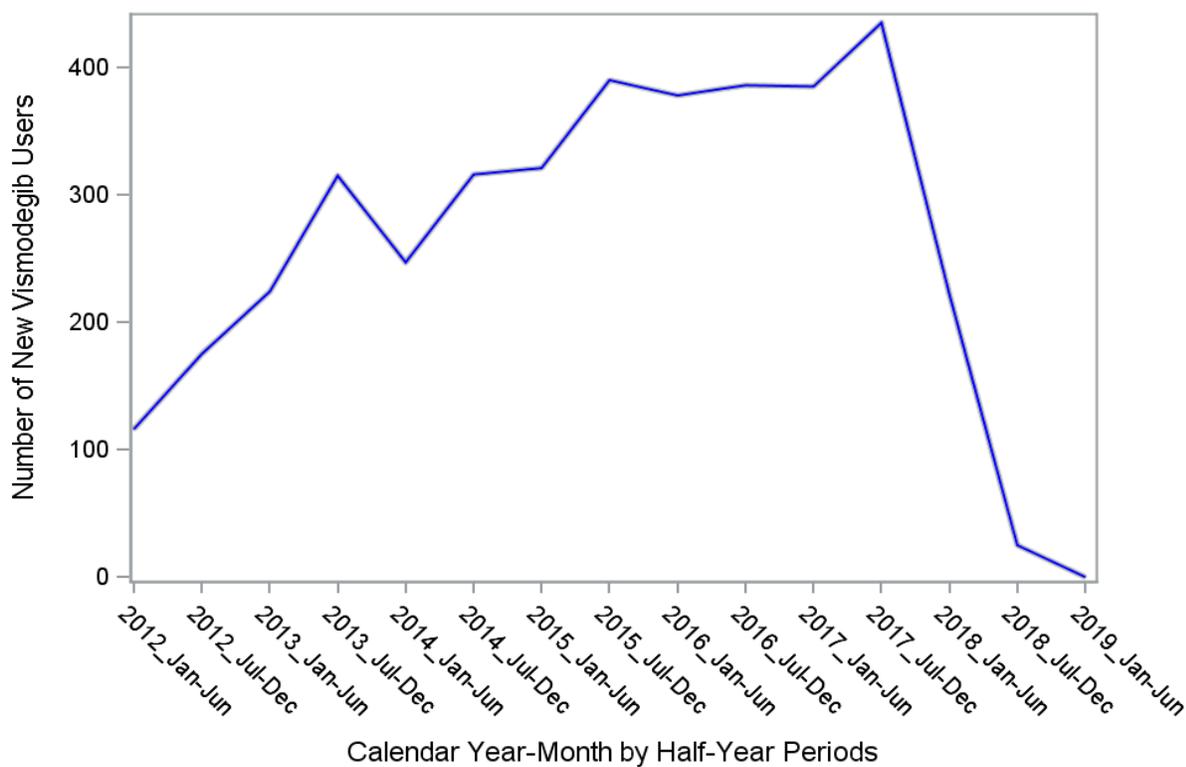
**Figure 1aj. Counts of New Tofacitinib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

Figure 1ak. Counts of New Vismodegib Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>



<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Figure 1a. Counts of New Ziv-Aflibercept Users over Time in the Sentinel Distributed Database (SDD) between January 1, 2012 and January 31, 2019<sup>1</sup>**

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\*\*\*\*Plot is not shown due to a small sample size

<sup>1</sup>Counts of number of new users per year could be influenced by various factors including availability of Data Partner data (Appendix A), market entries, and discontinuations of product

**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (January 31, 2019)**

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DP ID	DP Start Date*	DP End Date*
DP01	06/01/2007	07/31/2018
DP02	01/01/2000	07/31/2017
DP03	01/01/2000	06/30/2018
DP04	01/01/2008	11/30/2018
DP05	01/01/2006	05/31/2018
DP06	01/01/2000	12/31/2017
DP07	01/01/2008	12/31/2017
DP08	01/01/2010	03/31/2018
DP09	01/01/2005	09/30/2017
DP10	01/01/2000	03/31/2016
DP11	01/01/2000	03/31/2018
DP12	01/01/2000	01/31/2019
DP13	01/01/2000	12/31/2017
DP14	01/01/2004	08/31/2018
DP15	01/01/2004	08/31/2018
DP16	01/01/2000	06/30/2018
DP17	01/01/2012	06/30/2017

\* The start and end dates are based on the minimum and maximum dates within each DP. The month with the maximum date must have at least 80% of the number of records in the previous month

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

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
<b>Carfilzomib</b>		
C9295	Injection, carfilzomib, 1 mg	HCPCS
J9047	Injection, carfilzomib, 1 mg	HCPCS
<b>Choline C 11</b>		
A9515	Choline C-11, diagnostic, per study dose up to 20 millicuries	HCPCS
C9461	Choline C 11, diagnostic, per study dose	HCPCS
<b>Florbetapir F 18</b>		
A9586	Florbetapir F18, diagnostic, per study dose, up to 10 millicuries	HCPCS
<b>Glucarpidase</b>		
C9293	Injection, glucarpidase, 10 units	HCPCS
<b>Ocriplasmin</b>		
C9298	Injection, ocriplasmin, 0.125 mg	HCPCS
J7316	Injection, ocriplasmin, 0.125 mg	HCPCS
<b>Omacetaxine Mepesuccinate</b>		
C9297	Injection, omacetaxine mepesuccinate, 0.01 mg	HCPCS
J9262	Injection, omacetaxine mepesuccinate, 0.01 mg	HCPCS
<b>Pasireotide</b>		
C9454	Injection, pasireotide pamoate long acting, 1 mg	HCPCS
J2502	Injection, pasireotide long acting, 1 mg	HCPCS
<b>Peginesatide</b>		
J0890	Injection, peginesatide, 0.1 mg (for ESRD on dialysis)	HCPCS
Q2047	Injection, peginesatide, 0.1 mg (for ESRD on dialysis)	HCPCS
<b>Pertuzumab</b>		
C9292	Injection, pertuzumab, 10 mg	HCPCS
J9306	Injection, pertuzumab, 1 mg	HCPCS
<b>Taliglucerase Alfa</b>		
C9294	Injection, taliglucerase alfa, 10 units	HCPCS
J3060	Injection, taliglucerase alfa, 10 units	HCPCS
<b>Tbo-Filgrastim</b>		
J1446	Injection, TBO-filgrastim, 5 micrograms	HCPCS
J1447	Injection, tbo-filgrastim, 1 microgram	HCPCS
<b>Ziv-Aflibercept</b>		
C9296	Injection, ziv-aflibercept, 1 mg	HCPCS
J9400	Injection, ziv-aflibercept, 1 mg	HCPCS

**Appendix C. List of Generic and Brand Drug Names Used to Define Exposures of Interest in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
<b>Acidinium Bromide</b>	
Acidinium bromide	Tudorza Pressair
<b>Apixaban</b>	
Apixaban	Eliquis
<b>Avanafil</b>	
Avanafil	Stendra
<b>Axitinib</b>	
Axitinib	Inlyta
<b>Bedaquiline Fumarate</b>	
Bedaquiline fumarate	Sirturo
<b>Bosutinib</b>	
Bosutinib	Bosulif
<b>Cabozantinib</b>	
Cabozantinib s-malate	Cometriq
Cabozantinib s-malate	Cabometyx
<b>Carfilzomib</b>	
Carfilzomib	Kyprolis
<b>Choline C 11</b>	
Choline C 11	Choline C 11
<b>Crofelemer</b>	
Crofelemer	Fulyzaq
Crofelemer	Mytesi
<b>Elvitegravir/Cobicistat/Emtricitabine/Tenofovir Disoproxil</b>	
Elvitegravir/cobicistat/emtricitabine/tenofovir disoproxil	Stribild
<b>Enzalutamide</b>	
Enzalutamide	Xtandi
<b>Florbetapir F 18</b>	
Florbetapir F-18	Amyvid
<b>Glucarpidase</b>	
Glucarpidase	Voraxaze
<b>Lingenol Mebutate</b>	
Lingenol mebutate	Picato
<b>Ivacaftor</b>	
Ivacaftor	Kalydeco
<b>Linaclotide</b>	
Linaclotide	Linzess
<b>Lomitapide Mesylate</b>	
Lomitapide mesylate	Juxtapid
<b>Lorcaserin</b>	
Lorcaserin HCl	Belviq
Lorcaserin HCl	Belviq XR
<b>Lucinactant</b>	
Lucinactant	Surfaxin
<b>Mirabegron</b>	
Mirabegron	Myrbetriq
<b>Ocriplasmin</b>	
Ocriplasmin/PF	Jetrea (PF)
<b>Omacetaxine Mepesuccinate</b>	
Omacetaxine mepesuccinate	Synribo

**Appendix C. List of Generic and Brand Drug Names Used to Define Exposures of Interest in this Request**

<b>Generic Name</b>	<b>Brand Name</b>
<b>Pasireotide Diaspartate</b>	
Pasireotide diaspartate	Signifor
<b>Peginesatide</b>	
Peginesatide	Omontys
<b>Perampanel</b>	
Perampanel	Fycompa
<b>Pertuzumab</b>	
Pertuzumab	Perjeta
<b>Ponatinib</b>	
Ponatinib HCl	Iclusig
<b>Regorafenib</b>	
Regorafenib	Stivarga
<b>Sodium Picosulfate/Magnesium Oxide/Citric Acid</b>	
Sodium picosulfate/magnesium oxide/citric acid	Clenpiq
Sodium picosulfate/magnesium oxide/citric acid	Prepopik
<b>Tafluprost</b>	
Tafluprost/PF	Zioptan (PF)
<b>Taliglucerase Alfa</b>	
Taliglucerase alfa	ElELYso
<b>Tbo-Filgrastim</b>	
tbo-Filgrastim	Granix
<b>Teduglutide</b>	
Teduglutide	Gattex 30-Vial
Teduglutide	Gattex One-Vial
<b>Teriflunomide</b>	
Teriflunomide	Aubagio
<b>Tofacitinib Citrate</b>	
Tofacitinib citrate	Xeljanz XR
Tofacitinib citrate	Xeljanz
<b>Vismodegib</b>	
Vismodegib	Erivedge
<b>Ziv-Aflibercept</b>	
Ziv-aflibercept	Zaltrap

**Appendix D. Algorithms Used to Define Baseline Characteristics in this Request**

Characteristic	Algorithm Source	Caresetting/ Principal Diagnosis <sup>1</sup>	Evaluation Period Start	Evaluation Period End	Code Days <sup>2</sup>
Acquired hypothyroidism	Chronic Conditions Data Warehouse (CCW) <sup>3</sup>	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Acute myocardial infarction	CCW	IPP, IPS	-365	-1	1
Alcohol abuse or dependence	Other	Any	-365	-1	1
Alzheimer's disease and related dementias	CCW	Any	-365	-1	1
Anemia	CCW	Any	-365	-1	1
Asthma	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Atrial fibrillation	CCW	IPP, IPS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Benign prostatic hyperplasia	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Breast cancer	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Chronic kidney disease	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Chronic obstructive pulmonary disease and bronchiectasis	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Colorectal cancer	CCW	IP, IS	-365	-1	1
		OR			
		AV, ED, OA	-365	-1	2
Depression	CCW	Any	-365	-1	1

**Appendix D. Algorithms Used to Define Baseline Characteristics in this Request**

Characteristic	Algorithm Source	Caresetting/ Principal Diagnosis <sup>1</sup>	Evaluation Period Start	Evaluation Period End	Code Days <sup>2</sup>
Diabetes	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Drug abuse or dependence	Other	Any	-365	-1	1
Endometrial cancer	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Glaucoma	CCW	AV, ED, OA	-365	-1	1
Heart failure	CCW	IP, AV, ED	-365	-1	1
History of cardiac arrest	Other	Any	-365	-1	1
History of coronary angioplasty or bypass	Other	Any	-365	-1	1
Hyperlipidemia	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Hypertension	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Ischemic heart disease	CCW	Any	-365	-1	1
Lung cancer	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Obesity	Other	Any	-365	-1	1
Osteoporosis	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Overweight	Other	Any	-365	-1	1

**Appendix D. Algorithms Used to Define Baseline Characteristics in this Request**

Characteristic	Algorithm Source	Caresetting/ Principal Diagnosis <sup>1</sup>	Evaluation Period Start	Evaluation Period End	Code Days <sup>2</sup>
Prostate cancer	CCW	IP, IS	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2
Rheumatoid arthritis/osteoarthritis	CCW	Any	-365	-1	2
Smoking	Other	Any	-365	-1	1
Stroke/transient ischemic attack	CCW	IP	-365	-1	1
		<b>OR</b>			
		AV, ED, OA	-365	-1	2

<sup>1</sup>Caresetting/Principal Diagnosis

**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.

**Principal Diagnosis** - 'IPP' = inpatient principal diagnosis, 'IPS' = inpatient secondary diagnosis.

<sup>2</sup>The minimum number of times the characteristic should be found in the baseline period.

<sup>3</sup>Centers for Medicare and Medicaid Services. (2018). "Chronic Conditions Data Warehouse." Available at: <https://www.ccwdata.org/web/guest/condition-categories>. Please note in this request some criteria for occurrence of claims to identify the conditions and reference periods have been modified from those specified in the CCW algorithm. For conditions requiring two separate code occurrences, two codes must occur within 365 days of the drug index date, not within 365 days of one another.

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

Code	Description	Code Category	Code Type
<b>Acquired Hypothyroidism</b>			
244	Postsurgical hypothyroidism	Diagnosis	ICD-9-CM
244.1	Other postablative hypothyroidism	Diagnosis	ICD-9-CM
244.2	Iodine hypothyroidism	Diagnosis	ICD-9-CM
244.3	Other iatrogenic hypothyroidism	Diagnosis	ICD-9-CM
244.8	Other specified acquired hypothyroidism	Diagnosis	ICD-9-CM
244.9	Unspecified hypothyroidism	Diagnosis	ICD-9-CM
E01.8	Other iodine-deficiency related thyroid disorders and allied conditions	Diagnosis	ICD-10-CM
E02	Subclinical iodine-deficiency hypothyroidism	Diagnosis	ICD-10-CM
E03.2	Hypothyroidism due to medicaments and other exogenous substances	Diagnosis	ICD-10-CM
E03.3	Postinfectious hypothyroidism	Diagnosis	ICD-10-CM
E03.8	Other specified hypothyroidism	Diagnosis	ICD-10-CM
E03.9	Hypothyroidism, unspecified	Diagnosis	ICD-10-CM
E89.0	Postprocedural hypothyroidism	Diagnosis	ICD-10-CM
<b>Acute Myocardial Infarction</b>			
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	ICD-9-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
I21.9	Acute myocardial infarction, unspecified	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

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

Code	Description	Code Category	Code Type
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	Diagnosis	ICD-10-CM
<b>Alzheimer's Disease and Related Dementias</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
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	Amnestic 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	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

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

Code	Description	Code Category	Code Type
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>Anemia</b>			
280.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-9-CM
280.1	Iron deficiency anemia secondary to inadequate dietary iron intake	Diagnosis	ICD-9-CM
280.8	Other specified iron deficiency anemias	Diagnosis	ICD-9-CM
280.9	Unspecified iron deficiency anemia	Diagnosis	ICD-9-CM
281.0	Pernicious anemia	Diagnosis	ICD-9-CM
281.1	Other vitamin B12 deficiency anemia	Diagnosis	ICD-9-CM
281.2	Folate-deficiency anemia	Diagnosis	ICD-9-CM
281.3	Other specified megaloblastic anemias not elsewhere classified	Diagnosis	ICD-9-CM
281.4	Protein-deficiency anemia	Diagnosis	ICD-9-CM
281.8	Anemia associated with other specified nutritional deficiency	Diagnosis	ICD-9-CM
281.9	Unspecified deficiency anemia	Diagnosis	ICD-9-CM
282.0	Hereditary spherocytosis	Diagnosis	ICD-9-CM
282.1	Hereditary elliptocytosis	Diagnosis	ICD-9-CM
282.2	Anemias due to disorders of glutathione metabolism	Diagnosis	ICD-9-CM
282.3	Other hemolytic anemias due to enzyme deficiency	Diagnosis	ICD-9-CM
282.40	Thalassemia, unspecified	Diagnosis	ICD-9-CM
282.41	Sickle-cell thalassemia without crisis	Diagnosis	ICD-9-CM
282.42	Sickle-cell thalassemia with crisis	Diagnosis	ICD-9-CM
282.43	Alpha thalassemia	Diagnosis	ICD-9-CM
282.44	Beta thalassemia	Diagnosis	ICD-9-CM
282.45	Delta-beta thalassemia	Diagnosis	ICD-9-CM
282.46	Thalassemia minor	Diagnosis	ICD-9-CM
282.47	Hemoglobin E-beta thalassemia	Diagnosis	ICD-9-CM
282.49	Other thalassemia	Diagnosis	ICD-9-CM
282.5	Sickle-cell trait	Diagnosis	ICD-9-CM
282.60	Sickle-cell disease, unspecified	Diagnosis	ICD-9-CM
282.61	Hb-SS disease without crisis	Diagnosis	ICD-9-CM
282.62	Hb-SS disease with crisis	Diagnosis	ICD-9-CM
282.63	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-9-CM
282.64	Sickle-cell/Hb-C disease with crisis	Diagnosis	ICD-9-CM
282.68	Other sickle-cell disease without crisis	Diagnosis	ICD-9-CM
282.69	Other sickle-cell disease with crisis	Diagnosis	ICD-9-CM
282.7	Other hemoglobinopathies	Diagnosis	ICD-9-CM
282.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-9-CM
282.9	Unspecified hereditary hemolytic anemia	Diagnosis	ICD-9-CM
283.0	Autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
283.10	Unspecified non-autoimmune hemolytic anemia	Diagnosis	ICD-9-CM
283.11	Hemolytic-uremic syndrome	Diagnosis	ICD-9-CM
283.19	Other non-autoimmune hemolytic anemias	Diagnosis	ICD-9-CM
283.2	Hemoglobinuria due to hemolysis from external causes	Diagnosis	ICD-9-CM
283.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
284.01	Constitutional red blood cell aplasia	Diagnosis	ICD-9-CM
284.09	Other constitutional aplastic anemia	Diagnosis	ICD-9-CM
284.11	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-9-CM
284.12	Other drug induced pancytopenia	Diagnosis	ICD-9-CM
284.19	Other pancytopenia	Diagnosis	ICD-9-CM
284.2	Myelophthisis	Diagnosis	ICD-9-CM
284.81	Red cell aplasia (acquired) (adult) (with thymoma)	Diagnosis	ICD-9-CM
284.89	Other specified aplastic anemias	Diagnosis	ICD-9-CM
284.9	Unspecified aplastic anemia	Diagnosis	ICD-9-CM
285.0	Sideroblastic anemia	Diagnosis	ICD-9-CM
285.1	Acute posthemorrhagic anemia	Diagnosis	ICD-9-CM
285.21	Anemia in chronic kidney disease	Diagnosis	ICD-9-CM
285.22	Anemia in neoplastic disease	Diagnosis	ICD-9-CM
285.29	Anemia of other chronic disease	Diagnosis	ICD-9-CM
285.3	Antineoplastic chemotherapy induced anemia	Diagnosis	ICD-9-CM
285.8	Other specified anemias	Diagnosis	ICD-9-CM
285.9	Unspecified anemia	Diagnosis	ICD-9-CM
D50.0	Iron deficiency anemia secondary to blood loss (chronic)	Diagnosis	ICD-10-CM
D50.1	Sideropenic dysphagia	Diagnosis	ICD-10-CM
D50.8	Other iron deficiency anemias	Diagnosis	ICD-10-CM
D50.9	Iron deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D51.0	Vitamin B12 deficiency anemia due to intrinsic factor deficiency	Diagnosis	ICD-10-CM
D51.1	Vitamin B12 deficiency anemia due to selective vitamin B12 malabsorption with	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM
D51.3	Other dietary vitamin B12 deficiency anemia	Diagnosis	ICD-10-CM
D51.8	Other vitamin B12 deficiency anemias	Diagnosis	ICD-10-CM
D51.9	Vitamin B12 deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D52.0	Dietary folate deficiency anemia	Diagnosis	ICD-10-CM
D52.1	Drug-induced folate deficiency anemia	Diagnosis	ICD-10-CM
D52.8	Other folate deficiency anemias	Diagnosis	ICD-10-CM
D52.9	Folate deficiency anemia, unspecified	Diagnosis	ICD-10-CM
D53.0	Protein deficiency anemia	Diagnosis	ICD-10-CM
D53.1	Other megaloblastic anemias, not elsewhere classified	Diagnosis	ICD-10-CM
D53.2	Scorbutic anemia	Diagnosis	ICD-10-CM
D53.8	Other specified nutritional anemias	Diagnosis	ICD-10-CM
D53.9	Nutritional anemia, unspecified	Diagnosis	ICD-10-CM
D55.0	Anemia due to glucose-6-phosphate dehydrogenase [G6PD] deficiency	Diagnosis	ICD-10-CM
D55.1	Anemia due to other disorders of glutathione metabolism	Diagnosis	ICD-10-CM
D55.2	Anemia due to disorders of glycolytic enzymes	Diagnosis	ICD-10-CM
D55.3	Anemia due to disorders of nucleotide metabolism	Diagnosis	ICD-10-CM
D55.8	Other anemias due to enzyme disorders	Diagnosis	ICD-10-CM
D55.9	Anemia due to enzyme disorder, unspecified	Diagnosis	ICD-10-CM
D56.0	Alpha thalassemia	Diagnosis	ICD-10-CM
D56.1	Beta thalassemia	Diagnosis	ICD-10-CM
D56.2	Delta-beta thalassemia	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
D56.3	Thalassemia minor	Diagnosis	ICD-10-CM
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	Diagnosis	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	Diagnosis	ICD-10-CM
D56.8	Other thalassemias	Diagnosis	ICD-10-CM
D56.9	Thalassemia, unspecified	Diagnosis	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia with acute chest syndrome	Diagnosis	ICD-10-CM
D57.412	Sickle-cell thalassemia with splenic sequestration	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia with crisis, unspecified	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
D58.0	Hereditary spherocytosis	Diagnosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	Diagnosis	ICD-10-CM
D58.2	Other hemoglobinopathies	Diagnosis	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	Diagnosis	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	Diagnosis	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	Diagnosis	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	Diagnosis	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	Diagnosis	ICD-10-CM
D59.8	Other acquired hemolytic anemias	Diagnosis	ICD-10-CM
D59.9	Acquired hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	Diagnosis	ICD-10-CM
D60.8	Other acquired pure red cell aplasias	Diagnosis	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	Diagnosis	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	Diagnosis	ICD-10-CM
D61.09	Other constitutional aplastic anemia	Diagnosis	ICD-10-CM
D61.1	Drug-induced aplastic anemia	Diagnosis	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	Diagnosis	ICD-10-CM
D61.3	Idiopathic aplastic anemia	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D61.810	Antineoplastic chemotherapy induced pancytopenia	Diagnosis	ICD-10-CM
D61.811	Other drug-induced pancytopenia	Diagnosis	ICD-10-CM
D61.818	Other pancytopenia	Diagnosis	ICD-10-CM
D61.82	Myelophthisis	Diagnosis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	Diagnosis	ICD-10-CM
D61.9	Aplastic anemia, unspecified	Diagnosis	ICD-10-CM
D62	Acute posthemorrhagic anemia	Diagnosis	ICD-10-CM
D63.0	Anemia in neoplastic disease	Diagnosis	ICD-10-CM
D63.1	Anemia in chronic kidney disease	Diagnosis	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	Diagnosis	ICD-10-CM
D64.0	Hereditary sideroblastic anemia	Diagnosis	ICD-10-CM
D64.1	Secondary sideroblastic anemia due to disease	Diagnosis	ICD-10-CM
D64.2	Secondary sideroblastic anemia due to drugs and toxins	Diagnosis	ICD-10-CM
D64.3	Other sideroblastic anemias	Diagnosis	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	Diagnosis	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	Diagnosis	ICD-10-CM
D64.89	Other specified anemias	Diagnosis	ICD-10-CM
D64.9	Anemia, unspecified	Diagnosis	ICD-10-CM
<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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
<b>Atrial Fibrillation</b>			
427.31	Atrial fibrillation	Diagnosis	ICD-9-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
<b>Benign Prostatic Hyperplasia</b>			
600.00	Hypertrophy (benign) of prostate without urinary obstruction and other lower urinary tract symptoms [LUTS]	Diagnosis	ICD-9-CM
600.01	Hypertrophy (benign) of prostate with urinary obstruction and other lower	Diagnosis	ICD-9-CM
600.10	Nodular prostate without urinary obstruction	Diagnosis	ICD-9-CM
600.11	Nodular prostate with urinary obstruction	Diagnosis	ICD-9-CM
600.20	Benign localized hyperplasia of prostate without urinary obstruction and other lower urinary tract symptoms [LUTS]	Diagnosis	ICD-9-CM
600.21	Benign localized hyperplasia of prostate with urinary obstruction and other lower urinary tract symptoms [LUTS]	Diagnosis	ICD-9-CM
600.3	Cyst of prostate	Diagnosis	ICD-9-CM
600.90	Hyperplasia of prostate, unspecified, without urinary obstruction and other lower urinary tract symptoms [LUTS]	Diagnosis	ICD-9-CM
600.91	Hyperplasia of prostate, unspecified, with urinary obstruction and other lower urinary tract symptoms [LUTS]	Diagnosis	ICD-9-CM
N40.0	Benign prostatic hyperplasia without lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.1	Benign prostatic hyperplasia with lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.2	Nodular prostate without lower urinary tract symptoms	Diagnosis	ICD-10-CM
N40.3	Nodular prostate with lower urinary tract symptoms	Diagnosis	ICD-10-CM
N42.83	Cyst of prostate	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	Diagnosis	ICD-9-CM
095.4	Syphilis of kidney	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
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
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 disease	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

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

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

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Code	Description	Code Category	Code Type
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
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

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

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

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

Code	Description	Code Category	Code Type
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
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	Diagnosis	ICD-10-CM
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N00.6	Acute nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N00.8	Acute nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N00.9	Acute nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous	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	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular	Diagnosis	ICD-10-CM
N07.1	Hereditary nephropathy, not elsewhere classified with focal and segmental	Diagnosis	ICD-10-CM
N07.2	Hereditary nephropathy, not elsewhere classified with diffuse membranous	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary	Diagnosis	ICD-10-CM
N07.5	Hereditary nephropathy, not elsewhere classified with diffuse mesangiocapillary	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	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic	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
N18.4	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.9	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>Chronic Obstructive Pulmonary Disease and Bronchiectasis</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
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

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

Code	Description	Code Category	Code Type
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>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
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 remission	Diagnosis	ICD-9-CM
296.89	Other and unspecified bipolar disorders	Diagnosis	ICD-9-CM

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

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

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

Code	Description	Code Category	Code Type
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, uncontrolled	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
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

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

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

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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.351	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified	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
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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	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	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic	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
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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
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

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

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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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,	Diagnosis	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E09.3551	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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	Diagnosis	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy	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	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 complications	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
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
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	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

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

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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.341	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.3521	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
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

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

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

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

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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment,	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment,	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment,	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment,	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	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
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>Glaucoma</b>			
362.85	Retinal nerve fiber bundle defects	Diagnosis	ICD-9-CM
365.00	Unspecified preglaucoma	Diagnosis	ICD-9-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
365.01	Borderline glaucoma, open angle with borderline findings, low risk	Diagnosis	ICD-9-CM
365.02	Borderline glaucoma with anatomical narrow angle	Diagnosis	ICD-9-CM
365.03	Borderline glaucoma with steroid responders	Diagnosis	ICD-9-CM
365.04	Borderline glaucoma with ocular hypertension	Diagnosis	ICD-9-CM
365.10	Unspecified open-angle glaucoma	Diagnosis	ICD-9-CM
365.11	Primary open-angle glaucoma	Diagnosis	ICD-9-CM
365.12	Low tension open-angle glaucoma	Diagnosis	ICD-9-CM
365.13	Pigmentary open-angle glaucoma	Diagnosis	ICD-9-CM
365.15	Residual stage of open angle glaucoma	Diagnosis	ICD-9-CM
365.20	Unspecified primary angle-closure glaucoma	Diagnosis	ICD-9-CM
365.21	Intermittent angle-closure glaucoma	Diagnosis	ICD-9-CM
365.22	Acute angle-closure glaucoma	Diagnosis	ICD-9-CM
365.23	Chronic angle-closure glaucoma	Diagnosis	ICD-9-CM
365.24	Residual stage of angle-closure glaucoma	Diagnosis	ICD-9-CM
365.31	Corticosteroid-induced glaucoma, glaucomatous stage	Diagnosis	ICD-9-CM
365.32	Corticosteroid-induced glaucoma, residual stage	Diagnosis	ICD-9-CM
365.41	Glaucoma associated with chamber angle anomalies	Diagnosis	ICD-9-CM
365.42	Glaucoma associated with anomalies of iris	Diagnosis	ICD-9-CM
365.43	Glaucoma associated with other anterior segment anomalies	Diagnosis	ICD-9-CM
365.51	Phacolytic glaucoma	Diagnosis	ICD-9-CM
365.52	Pseudoexfoliation glaucoma	Diagnosis	ICD-9-CM
365.59	Glaucoma associated with other lens disorders	Diagnosis	ICD-9-CM
365.60	Glaucoma associated with unspecified ocular disorder	Diagnosis	ICD-9-CM
365.61	Glaucoma associated with pupillary block	Diagnosis	ICD-9-CM
365.62	Glaucoma associated with ocular inflammations	Diagnosis	ICD-9-CM
365.63	Glaucoma associated with vascular disorders of eye	Diagnosis	ICD-9-CM
365.64	Glaucoma associated with tumors or cysts	Diagnosis	ICD-9-CM
365.65	Glaucoma associated with ocular trauma	Diagnosis	ICD-9-CM
365.81	Hypersecretion glaucoma	Diagnosis	ICD-9-CM
365.82	Glaucoma with increased episcleral venous pressure	Diagnosis	ICD-9-CM
365.83	Aqueous misdirection	Diagnosis	ICD-9-CM
365.89	Other specified glaucoma	Diagnosis	ICD-9-CM
365.9	Unspecified glaucoma	Diagnosis	ICD-9-CM
377.14	Glaucomatous atrophy (cupping) of optic disc	Diagnosis	ICD-9-CM
H40.001	Preglaucoma, unspecified, right eye	Diagnosis	ICD-10-CM
H40.002	Preglaucoma, unspecified, left eye	Diagnosis	ICD-10-CM
H40.003	Preglaucoma, unspecified, bilateral	Diagnosis	ICD-10-CM
H40.009	Preglaucoma, unspecified, unspecified eye	Diagnosis	ICD-10-CM
H40.011	Open angle with borderline findings, low risk, right eye	Diagnosis	ICD-10-CM
H40.012	Open angle with borderline findings, low risk, left eye	Diagnosis	ICD-10-CM
H40.013	Open angle with borderline findings, low risk, bilateral	Diagnosis	ICD-10-CM
H40.019	Open angle with borderline findings, low risk, unspecified eye	Diagnosis	ICD-10-CM
H40.031	Anatomical narrow angle, right eye	Diagnosis	ICD-10-CM
H40.032	Anatomical narrow angle, left eye	Diagnosis	ICD-10-CM
H40.033	Anatomical narrow angle, bilateral	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.039	Anatomical narrow angle, unspecified eye	Diagnosis	ICD-10-CM
H40.041	Steroid responder, right eye	Diagnosis	ICD-10-CM
H40.042	Steroid responder, left eye	Diagnosis	ICD-10-CM
H40.043	Steroid responder, bilateral	Diagnosis	ICD-10-CM
H40.049	Steroid responder, unspecified eye	Diagnosis	ICD-10-CM
H40.051	Ocular hypertension, right eye	Diagnosis	ICD-10-CM
H40.052	Ocular hypertension, left eye	Diagnosis	ICD-10-CM
H40.053	Ocular hypertension, bilateral	Diagnosis	ICD-10-CM
H40.059	Ocular hypertension, unspecified eye	Diagnosis	ICD-10-CM
H40.10X0	Unspecified open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.10X1	Unspecified open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.10X2	Unspecified open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.10X3	Unspecified open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.10X4	Unspecified open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.1110	Primary open-angle glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1111	Primary open-angle glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1112	Primary open-angle glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1113	Primary open-angle glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1114	Primary open-angle glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1120	Primary open-angle glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1121	Primary open-angle glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1122	Primary open-angle glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1123	Primary open-angle glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1124	Primary open-angle glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1130	Primary open-angle glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1131	Primary open-angle glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1132	Primary open-angle glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1133	Primary open-angle glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1134	Primary open-angle glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1190	Primary open-angle glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1191	Primary open-angle glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1192	Primary open-angle glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1193	Primary open-angle glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1194	Primary open-angle glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.11X0	Primary open-angle glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.11X1	Primary open-angle glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.11X2	Primary open-angle glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.11X3	Primary open-angle glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.11X4	Primary open-angle glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.1210	Low-tension glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1211	Low-tension glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1212	Low-tension glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1213	Low-tension glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1214	Low-tension glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1220	Low-tension glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.1221	Low-tension glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1222	Low-tension glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1223	Low-tension glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1224	Low-tension glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1230	Low-tension glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1231	Low-tension glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1232	Low-tension glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1233	Low-tension glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1234	Low-tension glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1290	Low-tension glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1291	Low-tension glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1292	Low-tension glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1293	Low-tension glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1294	Low-tension glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1310	Pigmentary glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1311	Pigmentary glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1312	Pigmentary glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1313	Pigmentary glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1314	Pigmentary glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1320	Pigmentary glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1321	Pigmentary glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1322	Pigmentary glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1323	Pigmentary glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1324	Pigmentary glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1330	Pigmentary glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.1331	Pigmentary glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1332	Pigmentary glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1333	Pigmentary glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1334	Pigmentary glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1390	Pigmentary glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1391	Pigmentary glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1392	Pigmentary glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1393	Pigmentary glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1394	Pigmentary glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1410	Capsular glaucoma with pseudoexfoliation of lens, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1411	Capsular glaucoma with pseudoexfoliation of lens, right eye, mild stage	Diagnosis	ICD-10-CM
H40.1412	Capsular glaucoma with pseudoexfoliation of lens, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.1413	Capsular glaucoma with pseudoexfoliation of lens, right eye, severe stage	Diagnosis	ICD-10-CM
H40.1414	Capsular glaucoma with pseudoexfoliation of lens, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1420	Capsular glaucoma with pseudoexfoliation of lens, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1421	Capsular glaucoma with pseudoexfoliation of lens, left eye, mild stage	Diagnosis	ICD-10-CM
H40.1422	Capsular glaucoma with pseudoexfoliation of lens, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.1423	Capsular glaucoma with pseudoexfoliation of lens, left eye, severe stage	Diagnosis	ICD-10-CM
H40.1424	Capsular glaucoma with pseudoexfoliation of lens, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.1430	Capsular glaucoma with pseudoexfoliation of lens, bilateral, stage unspecified	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
H40.1431	Capsular glaucoma with pseudoexfoliation of lens, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.1432	Capsular glaucoma with pseudoexfoliation of lens, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.1433	Capsular glaucoma with pseudoexfoliation of lens, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.1434	Capsular glaucoma with pseudoexfoliation of lens, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.1490	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.1491	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.1492	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.1493	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.1494	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye,	Diagnosis	ICD-10-CM
H40.151	Residual stage of open-angle glaucoma, right eye	Diagnosis	ICD-10-CM
H40.152	Residual stage of open-angle glaucoma, left eye	Diagnosis	ICD-10-CM
H40.153	Residual stage of open-angle glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.159	Residual stage of open-angle glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.20X0	Unspecified primary angle-closure glaucoma, stage unspecified	Diagnosis	ICD-10-CM
H40.20X1	Unspecified primary angle-closure glaucoma, mild stage	Diagnosis	ICD-10-CM
H40.20X2	Unspecified primary angle-closure glaucoma, moderate stage	Diagnosis	ICD-10-CM
H40.20X3	Unspecified primary angle-closure glaucoma, severe stage	Diagnosis	ICD-10-CM
H40.20X4	Unspecified primary angle-closure glaucoma, indeterminate stage	Diagnosis	ICD-10-CM
H40.211	Acute angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.212	Acute angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.213	Acute angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.219	Acute angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.2210	Chronic angle-closure glaucoma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2211	Chronic angle-closure glaucoma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.2212	Chronic angle-closure glaucoma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.2213	Chronic angle-closure glaucoma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.2214	Chronic angle-closure glaucoma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2220	Chronic angle-closure glaucoma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2221	Chronic angle-closure glaucoma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.2222	Chronic angle-closure glaucoma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.2223	Chronic angle-closure glaucoma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.2224	Chronic angle-closure glaucoma, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.2230	Chronic angle-closure glaucoma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.2231	Chronic angle-closure glaucoma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.2232	Chronic angle-closure glaucoma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.2233	Chronic angle-closure glaucoma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.2234	Chronic angle-closure glaucoma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.2290	Chronic angle-closure glaucoma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.2291	Chronic angle-closure glaucoma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.2292	Chronic angle-closure glaucoma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.2293	Chronic angle-closure glaucoma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.2294	Chronic angle-closure glaucoma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.231	Intermittent angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
H40.232	Intermittent angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.233	Intermittent angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.239	Intermittent angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.241	Residual stage of angle-closure glaucoma, right eye	Diagnosis	ICD-10-CM
H40.242	Residual stage of angle-closure glaucoma, left eye	Diagnosis	ICD-10-CM
H40.243	Residual stage of angle-closure glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.249	Residual stage of angle-closure glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.30X0	Glaucoma secondary to eye trauma, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.30X1	Glaucoma secondary to eye trauma, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.30X2	Glaucoma secondary to eye trauma, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.30X3	Glaucoma secondary to eye trauma, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.30X4	Glaucoma secondary to eye trauma, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.31X0	Glaucoma secondary to eye trauma, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.31X1	Glaucoma secondary to eye trauma, right eye, mild stage	Diagnosis	ICD-10-CM
H40.31X2	Glaucoma secondary to eye trauma, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.31X3	Glaucoma secondary to eye trauma, right eye, severe stage	Diagnosis	ICD-10-CM
H40.31X4	Glaucoma secondary to eye trauma, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.32X0	Glaucoma secondary to eye trauma, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.32X1	Glaucoma secondary to eye trauma, left eye, mild stage	Diagnosis	ICD-10-CM
H40.32X2	Glaucoma secondary to eye trauma, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.32X3	Glaucoma secondary to eye trauma, left eye, severe stage	Diagnosis	ICD-10-CM
H40.33X0	Glaucoma secondary to eye trauma, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.33X1	Glaucoma secondary to eye trauma, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.33X2	Glaucoma secondary to eye trauma, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.33X3	Glaucoma secondary to eye trauma, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.33X4	Glaucoma secondary to eye trauma, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.40X0	Glaucoma secondary to eye inflammation, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.40X1	Glaucoma secondary to eye inflammation, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.40X2	Glaucoma secondary to eye inflammation, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.40X3	Glaucoma secondary to eye inflammation, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.40X4	Glaucoma secondary to eye inflammation, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.41X0	Glaucoma secondary to eye inflammation, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.41X1	Glaucoma secondary to eye inflammation, right eye, mild stage	Diagnosis	ICD-10-CM
H40.41X2	Glaucoma secondary to eye inflammation, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.41X3	Glaucoma secondary to eye inflammation, right eye, severe stage	Diagnosis	ICD-10-CM
H40.41X4	Glaucoma secondary to eye inflammation, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.42X0	Glaucoma secondary to eye inflammation, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.42X1	Glaucoma secondary to eye inflammation, left eye, mild stage	Diagnosis	ICD-10-CM
H40.42X2	Glaucoma secondary to eye inflammation, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.42X3	Glaucoma secondary to eye inflammation, left eye, severe stage	Diagnosis	ICD-10-CM
H40.42X4	Glaucoma secondary to eye inflammation, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.43X0	Glaucoma secondary to eye inflammation, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.43X1	Glaucoma secondary to eye inflammation, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.43X2	Glaucoma secondary to eye inflammation, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.43X3	Glaucoma secondary to eye inflammation, bilateral, severe stage	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
H40.43X4	Glaucoma secondary to eye inflammation, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.50X0	Glaucoma secondary to other eye disorders, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.50X1	Glaucoma secondary to other eye disorders, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.50X2	Glaucoma secondary to other eye disorders, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.50X3	Glaucoma secondary to other eye disorders, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.50X4	Glaucoma secondary to other eye disorders, unspecified eye, indeterminate	Diagnosis	ICD-10-CM
H40.51X0	Glaucoma secondary to other eye disorders, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.51X1	Glaucoma secondary to other eye disorders, right eye, mild stage	Diagnosis	ICD-10-CM
H40.51X2	Glaucoma secondary to other eye disorders, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.51X3	Glaucoma secondary to other eye disorders, right eye, severe stage	Diagnosis	ICD-10-CM
H40.51X4	Glaucoma secondary to other eye disorders, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.52X0	Glaucoma secondary to other eye disorders, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.52X1	Glaucoma secondary to other eye disorders, left eye, mild stage	Diagnosis	ICD-10-CM
H40.52X2	Glaucoma secondary to other eye disorders, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.52X3	Glaucoma secondary to other eye disorders, left eye, severe stage	Diagnosis	ICD-10-CM
H40.52X4	Glaucoma secondary to other eye disorders, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.53X0	Glaucoma secondary to other eye disorders, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.53X1	Glaucoma secondary to other eye disorders, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.53X2	Glaucoma secondary to other eye disorders, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.53X3	Glaucoma secondary to other eye disorders, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.53X4	Glaucoma secondary to other eye disorders, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.60X0	Glaucoma secondary to drugs, unspecified eye, stage unspecified	Diagnosis	ICD-10-CM
H40.60X1	Glaucoma secondary to drugs, unspecified eye, mild stage	Diagnosis	ICD-10-CM
H40.60X2	Glaucoma secondary to drugs, unspecified eye, moderate stage	Diagnosis	ICD-10-CM
H40.60X3	Glaucoma secondary to drugs, unspecified eye, severe stage	Diagnosis	ICD-10-CM
H40.60X4	Glaucoma secondary to drugs, unspecified eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.61X0	Glaucoma secondary to drugs, right eye, stage unspecified	Diagnosis	ICD-10-CM
H40.61X1	Glaucoma secondary to drugs, right eye, mild stage	Diagnosis	ICD-10-CM
H40.61X2	Glaucoma secondary to drugs, right eye, moderate stage	Diagnosis	ICD-10-CM
H40.61X3	Glaucoma secondary to drugs, right eye, severe stage	Diagnosis	ICD-10-CM
H40.61X4	Glaucoma secondary to drugs, right eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.62X0	Glaucoma secondary to drugs, left eye, stage unspecified	Diagnosis	ICD-10-CM
H40.62X1	Glaucoma secondary to drugs, left eye, mild stage	Diagnosis	ICD-10-CM
H40.62X2	Glaucoma secondary to drugs, left eye, moderate stage	Diagnosis	ICD-10-CM
H40.62X3	Glaucoma secondary to drugs, left eye, severe stage	Diagnosis	ICD-10-CM
H40.62X4	Glaucoma secondary to drugs, left eye, indeterminate stage	Diagnosis	ICD-10-CM
H40.63X0	Glaucoma secondary to drugs, bilateral, stage unspecified	Diagnosis	ICD-10-CM
H40.63X1	Glaucoma secondary to drugs, bilateral, mild stage	Diagnosis	ICD-10-CM
H40.63X2	Glaucoma secondary to drugs, bilateral, moderate stage	Diagnosis	ICD-10-CM
H40.63X3	Glaucoma secondary to drugs, bilateral, severe stage	Diagnosis	ICD-10-CM
H40.63X4	Glaucoma secondary to drugs, bilateral, indeterminate stage	Diagnosis	ICD-10-CM
H40.811	Glaucoma with increased episcleral venous pressure, right eye	Diagnosis	ICD-10-CM
H40.812	Glaucoma with increased episcleral venous pressure, left eye	Diagnosis	ICD-10-CM
H40.813	Glaucoma with increased episcleral venous pressure, bilateral	Diagnosis	ICD-10-CM
H40.819	Glaucoma with increased episcleral venous pressure, unspecified eye	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
H40.821	Hypersecretion glaucoma, right eye	Diagnosis	ICD-10-CM
H40.822	Hypersecretion glaucoma, left eye	Diagnosis	ICD-10-CM
H40.823	Hypersecretion glaucoma, bilateral	Diagnosis	ICD-10-CM
H40.829	Hypersecretion glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H40.831	Aqueous misdirection, right eye	Diagnosis	ICD-10-CM
H40.832	Aqueous misdirection, left eye	Diagnosis	ICD-10-CM
H40.833	Aqueous misdirection, bilateral	Diagnosis	ICD-10-CM
H40.839	Aqueous misdirection, unspecified eye	Diagnosis	ICD-10-CM
H40.89	Other specified glaucoma	Diagnosis	ICD-10-CM
H40.9	Unspecified glaucoma	Diagnosis	ICD-10-CM
H42	Glaucoma in diseases classified elsewhere	Diagnosis	ICD-10-CM
H44.511	Absolute glaucoma, right eye	Diagnosis	ICD-10-CM
H44.512	Absolute glaucoma, left eye	Diagnosis	ICD-10-CM
H44.513	Absolute glaucoma, bilateral	Diagnosis	ICD-10-CM
H44.519	Absolute glaucoma, unspecified eye	Diagnosis	ICD-10-CM
H47.231	Glaucomatous optic atrophy, right eye	Diagnosis	ICD-10-CM
H47.232	Glaucomatous optic atrophy, left eye	Diagnosis	ICD-10-CM
H47.233	Glaucomatous optic atrophy, bilateral	Diagnosis	ICD-10-CM
H47.239	Glaucomatous optic atrophy, unspecified eye	Diagnosis	ICD-10-CM
Q15.0	Congenital glaucoma	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

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

Code	Description	Code Category	Code Type
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
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>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
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	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
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

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Code	Description	Code Category	Code Type
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 disease	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
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>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

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Code	Description	Code Category	Code Type
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
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	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	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
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

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

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

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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	Diagnosis	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.810	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	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>Osteoporosis</b>			
733.00	Unspecified osteoporosis	Diagnosis	ICD-9-CM
733.01	Senile osteoporosis	Diagnosis	ICD-9-CM
733.02	Idiopathic osteoporosis	Diagnosis	ICD-9-CM
733.03	Disuse osteoporosis	Diagnosis	ICD-9-CM
733.09	Other osteoporosis	Diagnosis	ICD-9-CM
M81.0	Age-related osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM
M81.6	Localized osteoporosis [Lequesne]	Diagnosis	ICD-10-CM
M81.8	Other osteoporosis without current pathological fracture	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
<b>Rheumatoid Arthritis and Osteoarthritis</b>			
714.0	Rheumatoid arthritis	Diagnosis	ICD-9-CM
714.1	Felty's syndrome	Diagnosis	ICD-9-CM
714.2	Other rheumatoid arthritis with visceral or systemic involvement	Diagnosis	ICD-9-CM
714.30	Polyarticular juvenile rheumatoid arthritis, chronic or unspecified	Diagnosis	ICD-9-CM
714.31	Polyarticular juvenile rheumatoid arthritis, acute	Diagnosis	ICD-9-CM
714.32	Pauciarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
714.33	Monoarticular juvenile rheumatoid arthritis	Diagnosis	ICD-9-CM
715.00	Generalized osteoarthritis, unspecified site	Diagnosis	ICD-9-CM
715.04	Generalized osteoarthritis, involving hand	Diagnosis	ICD-9-CM
715.09	Generalized osteoarthritis, involving multiple sites	Diagnosis	ICD-9-CM
715.10	Primary localized osteoarthritis, unspecified site	Diagnosis	ICD-9-CM
715.11	Primary localized osteoarthritis, shoulder region	Diagnosis	ICD-9-CM
715.12	Primary localized osteoarthritis, upper arm	Diagnosis	ICD-9-CM
715.13	Primary localized osteoarthritis, forearm	Diagnosis	ICD-9-CM
715.14	Primary localized osteoarthritis, hand	Diagnosis	ICD-9-CM
715.15	Primary localized osteoarthritis, pelvic region and thigh	Diagnosis	ICD-9-CM
715.16	Primary localized osteoarthritis, lower leg	Diagnosis	ICD-9-CM
715.17	Primary localized osteoarthritis, ankle and foot	Diagnosis	ICD-9-CM
715.18	Primary localized osteoarthritis, other specified sites	Diagnosis	ICD-9-CM
715.20	Secondary localized osteoarthritis, unspecified site	Diagnosis	ICD-9-CM
715.21	Secondary localized osteoarthritis, shoulder region	Diagnosis	ICD-9-CM
715.22	Secondary localized osteoarthritis, upper arm	Diagnosis	ICD-9-CM
715.23	Secondary localized osteoarthritis, forearm	Diagnosis	ICD-9-CM
715.24	Secondary localized osteoarthritis, involving hand	Diagnosis	ICD-9-CM
715.25	Secondary localized osteoarthritis, pelvic region and thigh	Diagnosis	ICD-9-CM
715.26	Secondary localized osteoarthritis, lower leg	Diagnosis	ICD-9-CM
715.27	Secondary localized osteoarthritis, ankle and foot	Diagnosis	ICD-9-CM
715.28	Secondary localized osteoarthritis, other specified site	Diagnosis	ICD-9-CM
715.30	Localized osteoarthritis not specified whether primary or secondary, unspecified site	Diagnosis	ICD-9-CM
715.31	Localized osteoarthritis not specified whether primary or secondary, shoulder region	Diagnosis	ICD-9-CM
715.32	Localized osteoarthritis not specified whether primary or secondary, upper arm	Diagnosis	ICD-9-CM
715.33	Localized osteoarthritis not specified whether primary or secondary, forearm	Diagnosis	ICD-9-CM
715.34	Localized osteoarthritis not specified whether primary or secondary, hand	Diagnosis	ICD-9-CM
715.35	Localized osteoarthritis not specified whether primary or secondary, pelvic region and thigh	Diagnosis	ICD-9-CM
715.36	Localized osteoarthritis not specified whether primary or secondary, lower leg	Diagnosis	ICD-9-CM
715.37	Localized osteoarthritis not specified whether primary or secondary, ankle and foot	Diagnosis	ICD-9-CM
715.38	Localized osteoarthritis not specified whether primary or secondary, other specified sites	Diagnosis	ICD-9-CM
715.80	Osteoarthritis involving more than one site, but not specified as generalized, unspecified site	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
715.89	Osteoarthritis involving multiple sites, but not specified as generalized	Diagnosis	ICD-9-CM
715.90	Osteoarthritis, unspecified whether generalized or localized, unspecified site	Diagnosis	ICD-9-CM
715.91	Osteoarthritis, unspecified whether generalized or localized, shoulder region	Diagnosis	ICD-9-CM
715.92	Osteoarthritis, unspecified whether generalized or localized, upper arm	Diagnosis	ICD-9-CM
715.93	Osteoarthritis, unspecified whether generalized or localized, forearm	Diagnosis	ICD-9-CM
715.94	Osteoarthritis, unspecified whether generalized or localized, hand	Diagnosis	ICD-9-CM
715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	Diagnosis	ICD-9-CM
715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	Diagnosis	ICD-9-CM
715.97	Osteoarthritis, unspecified whether generalized or localized, ankle and foot	Diagnosis	ICD-9-CM
715.98	Osteoarthritis, unspecified whether generalized or localized, other specified	Diagnosis	ICD-9-CM
720.0	Ankylosing spondylitis	Diagnosis	ICD-9-CM
721.0	Cervical spondylosis without myelopathy	Diagnosis	ICD-9-CM
721.1	Cervical spondylosis with myelopathy	Diagnosis	ICD-9-CM
721.2	Thoracic spondylosis without myelopathy	Diagnosis	ICD-9-CM
721.3	Lumbosacral spondylosis without myelopathy	Diagnosis	ICD-9-CM
721.90	Spondylosis of unspecified site without mention of myelopathy	Diagnosis	ICD-9-CM
721.91	Spondylosis of unspecified site with myelopathy	Diagnosis	ICD-9-CM
M05.00	Felty's syndrome, unspecified site	Diagnosis	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	Diagnosis	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	Diagnosis	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	Diagnosis	ICD-10-CM
M05.021	Felty's syndrome, right elbow	Diagnosis	ICD-10-CM
M05.022	Felty's syndrome, left elbow	Diagnosis	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	Diagnosis	ICD-10-CM
M05.031	Felty's syndrome, right wrist	Diagnosis	ICD-10-CM
M05.032	Felty's syndrome, left wrist	Diagnosis	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	Diagnosis	ICD-10-CM
M05.041	Felty's syndrome, right hand	Diagnosis	ICD-10-CM
M05.042	Felty's syndrome, left hand	Diagnosis	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	Diagnosis	ICD-10-CM
M05.051	Felty's syndrome, right hip	Diagnosis	ICD-10-CM
M05.052	Felty's syndrome, left hip	Diagnosis	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	Diagnosis	ICD-10-CM
M05.061	Felty's syndrome, right knee	Diagnosis	ICD-10-CM
M05.062	Felty's syndrome, left knee	Diagnosis	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	Diagnosis	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	Diagnosis	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	Diagnosis	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	Diagnosis	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	Diagnosis	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	Diagnosis	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	Diagnosis	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	Diagnosis	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	Diagnosis	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	Diagnosis	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	Diagnosis	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	Diagnosis	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	Diagnosis	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	Diagnosis	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	Diagnosis	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	Diagnosis	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	Diagnosis	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	Diagnosis	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	Diagnosis	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	Diagnosis	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	Diagnosis	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	Diagnosis	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	Diagnosis	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	Diagnosis	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	Diagnosis	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	Diagnosis	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	Diagnosis	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	Diagnosis	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	Diagnosis	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	Diagnosis	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	Diagnosis	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	Diagnosis	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	Diagnosis	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	Diagnosis	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	Diagnosis	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	Diagnosis	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	Diagnosis	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	Diagnosis	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	Diagnosis	ICD-10-CM
M06.29	Rheumatoid bursitis, multiple sites	Diagnosis	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	Diagnosis	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	Diagnosis	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	Diagnosis	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	Diagnosis	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	Diagnosis	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	Diagnosis	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	Diagnosis	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	Diagnosis	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	Diagnosis	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	Diagnosis	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	Diagnosis	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	Diagnosis	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	Diagnosis	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	Diagnosis	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	Diagnosis	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	Diagnosis	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	Diagnosis	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	Diagnosis	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	Diagnosis	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	Diagnosis	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	Diagnosis	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	Diagnosis	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	Diagnosis	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M06.811	Other specified rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	Diagnosis	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	Diagnosis	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	Diagnosis	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	Diagnosis	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	Diagnosis	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	Diagnosis	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	Diagnosis	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	Diagnosis	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	Diagnosis	ICD-10-CM
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	Diagnosis	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	Diagnosis	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	Diagnosis	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	Diagnosis	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	Diagnosis	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	Diagnosis	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	Diagnosis	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	Diagnosis	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	Diagnosis	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	Diagnosis	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	Diagnosis	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	Diagnosis	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	Diagnosis	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	Diagnosis	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	Diagnosis	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	Diagnosis	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	Diagnosis	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	Diagnosis	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	Diagnosis	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	Diagnosis	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	Diagnosis	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	Diagnosis	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	Diagnosis	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	Diagnosis	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	Diagnosis	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	Diagnosis	ICD-10-CM
M15.1	Heberden's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.3	Secondary multiple arthritis	Diagnosis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	Diagnosis	ICD-10-CM
M15.8	Other polyosteoarthritis	Diagnosis	ICD-10-CM
M15.9	Polyosteoarthritis, unspecified	Diagnosis	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.12	Unilateral primary osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.2	Bilateral osteoarthritis resulting from hip dysplasia	Diagnosis	ICD-10-CM
M16.30	Unilateral osteoarthritis resulting from hip dysplasia, unspecified hip	Diagnosis	ICD-10-CM
M16.31	Unilateral osteoarthritis resulting from hip dysplasia, right hip	Diagnosis	ICD-10-CM
M16.32	Unilateral osteoarthritis resulting from hip dysplasia, left hip	Diagnosis	ICD-10-CM
M16.4	Bilateral post-traumatic osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.50	Unilateral post-traumatic osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.51	Unilateral post-traumatic osteoarthritis, right hip	Diagnosis	ICD-10-CM
M16.52	Unilateral post-traumatic osteoarthritis, left hip	Diagnosis	ICD-10-CM
M16.6	Other bilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.7	Other unilateral secondary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.9	Osteoarthritis of hip, unspecified	Diagnosis	ICD-10-CM
M17.0	Bilateral primary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.10	Unilateral primary osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.11	Unilateral primary osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.12	Unilateral primary osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.2	Bilateral post-traumatic osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	Diagnosis	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.50	Other unilateral secondary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.51	Other unilateral secondary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.52	Other unilateral secondary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.9	Osteoarthritis of first carpometacarpal joint, unspecified	Diagnosis	ICD-10-CM
M19.011	Primary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.012	Primary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.019	Primary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.021	Primary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.022	Primary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.029	Primary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.031	Primary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.032	Primary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.039	Primary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.041	Primary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.042	Primary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.049	Primary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.071	Primary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.072	Primary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.079	Primary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.129	Post-traumatic osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.131	Post-traumatic osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.132	Post-traumatic osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.139	Post-traumatic osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.141	Post-traumatic osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.142	Post-traumatic osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.149	Post-traumatic osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.171	Post-traumatic osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.172	Post-traumatic osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.179	Post-traumatic osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.211	Secondary osteoarthritis, right shoulder	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
M19.212	Secondary osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.219	Secondary osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.221	Secondary osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.222	Secondary osteoarthritis, left elbow	Diagnosis	ICD-10-CM
M19.229	Secondary osteoarthritis, unspecified elbow	Diagnosis	ICD-10-CM
M19.231	Secondary osteoarthritis, right wrist	Diagnosis	ICD-10-CM
M19.232	Secondary osteoarthritis, left wrist	Diagnosis	ICD-10-CM
M19.239	Secondary osteoarthritis, unspecified wrist	Diagnosis	ICD-10-CM
M19.241	Secondary osteoarthritis, right hand	Diagnosis	ICD-10-CM
M19.242	Secondary osteoarthritis, left hand	Diagnosis	ICD-10-CM
M19.249	Secondary osteoarthritis, unspecified hand	Diagnosis	ICD-10-CM
M19.271	Secondary osteoarthritis, right ankle and foot	Diagnosis	ICD-10-CM
M19.272	Secondary osteoarthritis, left ankle and foot	Diagnosis	ICD-10-CM
M19.279	Secondary osteoarthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M19.90	Unspecified osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.91	Primary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.92	Post-traumatic osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M19.93	Secondary osteoarthritis, unspecified site	Diagnosis	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	Diagnosis	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	Diagnosis	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	Diagnosis	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	Diagnosis	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	Diagnosis	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	Diagnosis	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	Diagnosis	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	Diagnosis	ICD-10-CM
M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.012	Anterior spinal artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.013	Anterior spinal artery compression syndromes, cervicothoracic region	Diagnosis	ICD-10-CM
M47.014	Anterior spinal artery compression syndromes, thoracic region	Diagnosis	ICD-10-CM
M47.015	Anterior spinal artery compression syndromes, thoracolumbar region	Diagnosis	ICD-10-CM
M47.016	Anterior spinal artery compression syndromes, lumbar region	Diagnosis	ICD-10-CM
M47.019	Anterior spinal artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.022	Vertebral artery compression syndromes, cervical region	Diagnosis	ICD-10-CM
M47.029	Vertebral artery compression syndromes, site unspecified	Diagnosis	ICD-10-CM
M47.10	Other spondylosis with myelopathy, site unspecified	Diagnosis	ICD-10-CM
M47.11	Other spondylosis with myelopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.12	Other spondylosis with myelopathy, cervical region	Diagnosis	ICD-10-CM
M47.13	Other spondylosis with myelopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.20	Other spondylosis with radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.21	Other spondylosis with radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.22	Other spondylosis with radiculopathy, cervical region	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
M47.23	Other spondylosis with radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.24	Other spondylosis with radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.25	Other spondylosis with radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.26	Other spondylosis with radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.27	Other spondylosis with radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.28	Other spondylosis with radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region	Diagnosis	ICD-10-CM
M47.813	Spondylosis without myelopathy or radiculopathy, cervicothoracic region	Diagnosis	ICD-10-CM
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	Diagnosis	ICD-10-CM
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	Diagnosis	ICD-10-CM
M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region	Diagnosis	ICD-10-CM
M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region	Diagnosis	ICD-10-CM
M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.819	Spondylosis without myelopathy or radiculopathy, site unspecified	Diagnosis	ICD-10-CM
M47.891	Other spondylosis, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M47.892	Other spondylosis, cervical region	Diagnosis	ICD-10-CM
M47.893	Other spondylosis, cervicothoracic region	Diagnosis	ICD-10-CM
M47.894	Other spondylosis, thoracic region	Diagnosis	ICD-10-CM
M47.895	Other spondylosis, thoracolumbar region	Diagnosis	ICD-10-CM
M47.896	Other spondylosis, lumbar region	Diagnosis	ICD-10-CM
M47.897	Other spondylosis, lumbosacral region	Diagnosis	ICD-10-CM
M47.898	Other spondylosis, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M47.899	Other spondylosis, site unspecified	Diagnosis	ICD-10-CM
M47.9	Spondylosis, unspecified	Diagnosis	ICD-10-CM
M48.8X1	Other specified spondylopathies, occipito-atlanto-axial region	Diagnosis	ICD-10-CM
M48.8X2	Other specified spondylopathies, cervical region	Diagnosis	ICD-10-CM
M48.8X3	Other specified spondylopathies, cervicothoracic region	Diagnosis	ICD-10-CM
M48.8X4	Other specified spondylopathies, thoracic region	Diagnosis	ICD-10-CM
M48.8X5	Other specified spondylopathies, thoracolumbar region	Diagnosis	ICD-10-CM
M48.8X6	Other specified spondylopathies, lumbar region	Diagnosis	ICD-10-CM
M48.8X7	Other specified spondylopathies, lumbosacral region	Diagnosis	ICD-10-CM
M48.8X8	Other specified spondylopathies, sacral and sacrococcygeal region	Diagnosis	ICD-10-CM
M48.8X9	Other specified spondylopathies, site unspecified	Diagnosis	ICD-10-CM
<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
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

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

Code	Description	Code Category	Code Type
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
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral	Diagnosis	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	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	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	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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 artery	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
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
I63.119	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
I63.139	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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 arteries	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	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	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 arteries	Diagnosis	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
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 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 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 artery	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM

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

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Code	Description	Code Category	Code Type
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
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>Breast Cancer</b>			
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
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
175.0	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
233.0	Carcinoma in situ of breast	Diagnosis	ICD-9-CM
V10.3	Personal history of malignant neoplasm of breast	Diagnosis	ICD-9-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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	Diagnosis	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	Diagnosis	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	Diagnosis	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	Diagnosis	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	Diagnosis	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	Diagnosis	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	Diagnosis	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	Diagnosis	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	Diagnosis	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	Diagnosis	ICD-10-CM
C50.621	Malignant neoplasm of axillary tail of right male breast	Diagnosis	ICD-10-CM
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

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

Code	Description	Code Category	Code Type
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	Diagnosis	ICD-10-CM
D05.00	Lobular carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.01	Lobular carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.02	Lobular carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.10	Intraductal carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.11	Intraductal carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.12	Intraductal carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.80	Other specified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.81	Other specified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.82	Other specified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
D05.90	Unspecified type of carcinoma in situ of unspecified breast	Diagnosis	ICD-10-CM
D05.91	Unspecified type of carcinoma in situ of right breast	Diagnosis	ICD-10-CM
D05.92	Unspecified type of carcinoma in situ of left breast	Diagnosis	ICD-10-CM
Z85.3	Personal history of malignant neoplasm of breast	Diagnosis	ICD-10-CM
<b>Colorectal Cancer</b>			
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
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
230.3	Carcinoma in situ of colon	Diagnosis	ICD-9-CM
230.4	Carcinoma in situ of rectum	Diagnosis	ICD-9-CM
V10.05	Personal history of malignant neoplasm of large intestine	Diagnosis	ICD-9-CM
V10.06	Personal history of malignant neoplasm of rectum, rectosigmoid junction, and anus	Diagnosis	ICD-9-CM
C18.0	Malignant neoplasm of cecum	Diagnosis	ICD-10-CM
C18.1	Malignant neoplasm of appendix	Diagnosis	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	Diagnosis	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	Diagnosis	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	Diagnosis	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	Diagnosis	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	Diagnosis	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	Diagnosis	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	Diagnosis	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	Diagnosis	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	Diagnosis	ICD-10-CM
C20	Malignant neoplasm of rectum	Diagnosis	ICD-10-CM
D01.0	Carcinoma in situ of colon	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
D01.1	Carcinoma in situ of rectosigmoid junction	Diagnosis	ICD-10-CM
D01.2	Carcinoma in situ of rectum	Diagnosis	ICD-10-CM
Z85.038	Personal history of other malignant neoplasm of large intestine	Diagnosis	ICD-10-CM
Z85.040	Personal history of malignant carcinoid tumor of rectum	Diagnosis	ICD-10-CM
Z85.048	Personal history of other malignant neoplasm of rectum, rectosigmoid junction,	Diagnosis	ICD-10-CM
<b>Prostate Cancer</b>			
185	Malignant neoplasm of prostate	Diagnosis	ICD-9-CM
233.4	Carcinoma in situ of prostate	Diagnosis	ICD-9-CM
V10.46	Personal history of malignant neoplasm of prostate	Diagnosis	ICD-9-CM
C61	Malignant neoplasm of prostate	Diagnosis	ICD-10-CM
D07.5	Carcinoma in situ of prostate	Diagnosis	ICD-10-CM
Z85.46	Personal history of malignant neoplasm of prostate	Diagnosis	ICD-10-CM
<b>Lung Cancer</b>			
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
231.2	Carcinoma in situ of bronchus and lung	Diagnosis	ICD-9-CM
V10.11	Personal history of malignant neoplasm of bronchus and lung	Diagnosis	ICD-9-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
D02.20	Carcinoma in situ of unspecified bronchus and lung	Diagnosis	ICD-10-CM
D02.21	Carcinoma in situ of right bronchus and lung	Diagnosis	ICD-10-CM
D02.22	Carcinoma in situ of left bronchus and lung	Diagnosis	ICD-10-CM
Z85.110	Personal history of malignant carcinoid tumor of bronchus and lung	Diagnosis	ICD-10-CM
Z85.118	Personal history of other malignant neoplasm of bronchus and lung	Diagnosis	ICD-10-CM
<b>Endometrial Cancer</b>			
182.0	Malignant neoplasm of corpus uteri, except isthmus	Diagnosis	ICD-9-CM
233.2	Carcinoma in situ of other and unspecified parts of uterus	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
V10.42	Personal history of malignant neoplasm of other parts of the uterus	Diagnosis	ICD-9-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
D07.0	Carcinoma in situ of endometrium	Diagnosis	ICD-10-CM
Z85.42	Personal history of malignant neoplasm of other parts of uterus	Diagnosis	ICD-10-CM
<b>Acquired Hypothyroidism Combo</b>			
244.0	Postsurgical hypothyroidism	Diagnosis	ICD-9-CM
244.1	Other postablative hypothyroidism	Diagnosis	ICD-9-CM
244.2	Iodine hypothyroidism	Diagnosis	ICD-9-CM
244.3	Other iatrogenic hypothyroidism	Diagnosis	ICD-9-CM
244.8	Other specified acquired hypothyroidism	Diagnosis	ICD-9-CM
244.9	Unspecified hypothyroidism	Diagnosis	ICD-9-CM
E01.8	Other iodine-deficiency related thyroid disorders and allied conditions	Diagnosis	ICD-10-CM
E02	Subclinical iodine-deficiency hypothyroidism	Diagnosis	ICD-10-CM
E03.2	Hypothyroidism due to medicaments and other exogenous substances	Diagnosis	ICD-10-CM
E03.3	Postinfectious hypothyroidism	Diagnosis	ICD-10-CM
E03.8	Other specified hypothyroidism	Diagnosis	ICD-10-CM
E03.9	Hypothyroidism, unspecified	Diagnosis	ICD-10-CM
E89.0	Postprocedural hypothyroidism	Diagnosis	ICD-10-CM
<b>Asthma Combo</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

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

Code	Description	Code Category	Code Type
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
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
<b>Endometrial Cancer Combo</b>			
182.0	Malignant neoplasm of corpus uteri, except isthmus	Diagnosis	ICD-9-CM
233.2	Carcinoma in situ of other and unspecified parts of uterus	Diagnosis	ICD-9-CM
V10.42	Personal history of malignant neoplasm of other parts of the uterus	Diagnosis	ICD-9-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
D07.0	Carcinoma in situ of endometrium	Diagnosis	ICD-10-CM
Z85.42	Personal history of malignant neoplasm of other parts of uterus	Diagnosis	ICD-10-CM
<b>Obesity</b>			
278.00	Obesity, unspecified	Diagnosis	ICD-9-CM
278.01	Morbid obesity	Diagnosis	ICD-9-CM
539.0	Complications of gastric band procedure	Diagnosis	ICD-9-CM
539.01	Infection due to gastric band procedure	Diagnosis	ICD-9-CM
539.09	Other complications of gastric band procedure	Diagnosis	ICD-9-CM
539.8	Complications of other bariatric procedure	Diagnosis	ICD-9-CM
539.81	Infection due to other bariatric procedure	Diagnosis	ICD-9-CM
539.89	Other complications of other bariatric procedure	Diagnosis	ICD-9-CM
649.1	Obesity complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
649.10	Obesity complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-9-CM
649.11	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.12	Obesity complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.13	Obesity complicating pregnancy, childbirth, or the puerperium, antepartum	Diagnosis	ICD-9-CM
649.14	Obesity complicating pregnancy, childbirth, or the puerperium, postpartum	Diagnosis	ICD-9-CM
649.2	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
649.20	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-9-CM
649.21	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
649.22	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.23	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-9-CM
649.24	Bariatric surgery status complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
V85.3	Body Mass Index between 30-39, adult	Diagnosis	ICD-9-CM
V85.30	Body Mass Index 30.0-30.9, adult	Diagnosis	ICD-9-CM
V85.31	Body Mass Index 31.0-31.9, adult	Diagnosis	ICD-9-CM
V85.32	Body Mass Index 32.0-32.9, adult	Diagnosis	ICD-9-CM
V85.33	Body Mass Index 33.0-33.9, adult	Diagnosis	ICD-9-CM
V85.34	Body Mass Index 34.0-34.9, adult	Diagnosis	ICD-9-CM
V85.35	Body Mass Index 35.0-35.9, adult	Diagnosis	ICD-9-CM
V85.36	Body Mass Index 36.0-36.9, adult	Diagnosis	ICD-9-CM
V85.37	Body Mass Index 37.0-37.9, adult	Diagnosis	ICD-9-CM
V85.38	Body Mass Index 38.0-38.9, adult	Diagnosis	ICD-9-CM
V85.39	Body Mass Index 39.0-39.9, adult	Diagnosis	ICD-9-CM
V85.4	Body Mass Index 40 and over, adult	Diagnosis	ICD-9-CM
V85.41	Body Mass Index 40.0-44.9, adult	Diagnosis	ICD-9-CM
V85.42	Body Mass Index 45.0-49.9, adult	Diagnosis	ICD-9-CM
V85.43	Body Mass Index 50.0-59.9, adult	Diagnosis	ICD-9-CM
V85.44	Body Mass Index 60.0-69.9, adult	Diagnosis	ICD-9-CM
V85.45	Body Mass Index 70 and over, adult	Diagnosis	ICD-9-CM
E66.01	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E66.09	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E66.1	Drug-induced obesity	Diagnosis	ICD-10-CM
E66.8	Other obesity	Diagnosis	ICD-10-CM
E66.9	Obesity, unspecified	Diagnosis	ICD-10-CM
K95.01	Infection due to gastric band procedure	Diagnosis	ICD-10-CM
K95.09	Other complications of gastric band procedure	Diagnosis	ICD-10-CM
K95.81	Infection due to other bariatric procedure	Diagnosis	ICD-10-CM
K95.89	Other complications of other bariatric procedure	Diagnosis	ICD-10-CM
O99.210	Obesity complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.211	Obesity complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.212	Obesity complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.213	Obesity complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.214	Obesity complicating childbirth	Diagnosis	ICD-10-CM
O99.215	Obesity complicating the puerperium	Diagnosis	ICD-10-CM
O99.840	Bariatric surgery status complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.841	Bariatric surgery status complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.842	Bariatric surgery status complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.843	Bariatric surgery status complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.844	Bariatric surgery status complicating childbirth	Diagnosis	ICD-10-CM
O99.845	Bariatric surgery status complicating the puerperium	Diagnosis	ICD-10-CM
Z68.30	Body mass index (BMI) 30.0-30.9, adult	Diagnosis	ICD-10-CM

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

Code	Description	Code Category	Code Type
Z68.31	Body mass index (BMI) 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index (BMI) 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index (BMI) 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index (BMI) 34.0-34.9, adult	Diagnosis	ICD-10-CM
Z68.35	Body mass index (BMI) 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z68.36	Body mass index (BMI) 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index (BMI) 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index (BMI) 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index (BMI) 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.41	Body mass index (BMI) 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index (BMI) 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index (BMI) 50-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index (BMI) 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index (BMI) 70 or greater, adult	Diagnosis	ICD-10-CM
43644	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and Roux-en-Y gastroenterostomy (roux limb 150 cm or less)	Procedure	CPT-4
43645	Laparoscopy, surgical, gastric restrictive procedure; with gastric bypass and small intestine reconstruction to limit absorption	Procedure	CPT-4
43770	Laparoscopy, surgical, gastric restrictive procedure; placement of adjustable gastric restrictive device (eg, gastric band and subcutaneous port components)	Procedure	CPT-4
43842	Gastric restrictive procedure, without gastric bypass, for morbid obesity; vertical-banded gastroplasty	Procedure	CPT-4
43843	Gastric restrictive procedure, without gastric bypass, for morbid obesity; other than vertical-banded gastroplasty	Procedure	CPT-4
43845	Gastric restrictive procedure with partial gastrectomy, pylorus-preserving duodenoileostomy and ileoileostomy (50 to 100 cm common channel) to limit absorption (biliopancreatic diversion with duodenal switch)	Procedure	CPT-4
43846	Gastric restrictive procedure, with gastric bypass for morbid obesity; with short limb (150 cm or less) Roux-en-Y gastroenterostomy	Procedure	CPT-4
43847	Gastric restrictive procedure, with gastric bypass for morbid obesity; with small intestine reconstruction to limit absorption	Procedure	CPT-4
43.89	Open and other partial gastrectomy	Procedure	ICD-9-CM
44.38	Laparoscopic gastroenterostomy	Procedure	ICD-9-CM
44.39	Other gastroenterostomy without gastrectomy	Procedure	ICD-9-CM
44.68	Laparoscopic gastroplasty	Procedure	ICD-9-CM
44.95	Laparoscopic gastric restrictive procedure	Procedure	ICD-9-CM
45.51	Isolation of segment of small intestine	Procedure	ICD-9-CM
45.91	Small-to-small intestinal anastomosis	Procedure	ICD-9-CM
0D16079	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1607L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160J9	Bypass Stomach to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D160JA	Bypass Stomach to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JB	Bypass Stomach to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D160K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D160Z9	Bypass Stomach to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D160ZA	Bypass Stomach to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D160ZB	Bypass Stomach to Ileum, Open Approach	Procedure	ICD-10-PCS
0D160ZL	Bypass Stomach to Transverse Colon, Open Approach	Procedure	ICD-10-PCS
0D16479	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1647L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164J9	Bypass Stomach to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JA	Bypass Stomach to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JB	Bypass Stomach to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164Z9	Bypass Stomach to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZA	Bypass Stomach to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZB	Bypass Stomach to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D164ZL	Bypass Stomach to Transverse Colon, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D16879	Bypass Stomach to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687A	Bypass Stomach to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D1687B	Bypass Stomach to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1687L	Bypass Stomach to Transverse Colon with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168J9	Bypass Stomach to Duodenum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JA	Bypass Stomach to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JB	Bypass Stomach to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168JL	Bypass Stomach to Transverse Colon with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168K9	Bypass Stomach to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KA	Bypass Stomach to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KB	Bypass Stomach to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168KL	Bypass Stomach to Transverse Colon with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168Z9	Bypass Stomach to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZA	Bypass Stomach to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZB	Bypass Stomach to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D168ZL	Bypass Stomach to Transverse Colon, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0D19079	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1907A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Open	Procedure	ICD-10-PCS
0D1907B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190JB	Bypass Duodenum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D190K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D190Z9	Bypass Duodenum to Duodenum, Open Approach	Procedure	ICD-10-PCS
0D190ZA	Bypass Duodenum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D190ZB	Bypass Duodenum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D19479	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1947B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D194J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194JB	Bypass Duodenum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194Z9	Bypass Duodenum to Duodenum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZA	Bypass Duodenum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D194ZB	Bypass Duodenum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D19879	Bypass Duodenum to Duodenum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987A	Bypass Duodenum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1987B	Bypass Duodenum to Ileum with Autologous Tissue Substitute, Via Natural or	Procedure	ICD-10-PCS
0D198J9	Bypass Duodenum to Duodenum with Synthetic Substitute, Via Natural or	Procedure	ICD-10-PCS
0D198JA	Bypass Duodenum to Jejunum with Synthetic Substitute, Via Natural or Artificial	Procedure	ICD-10-PCS
0D198JB	Bypass Duodenum to Ileum with Synthetic Substitute, Via Natural or Artificial	Procedure	ICD-10-PCS
0D198K9	Bypass Duodenum to Duodenum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KA	Bypass Duodenum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198KB	Bypass Duodenum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198Z9	Bypass Duodenum to Duodenum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZA	Bypass Duodenum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D198ZB	Bypass Duodenum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A07A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A07B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0JB	Bypass Jejunum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1A0ZA	Bypass Jejunum to Jejunum, Open Approach	Procedure	ICD-10-PCS
0D1A0ZB	Bypass Jejunum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1A47A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A47B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
0D1A4JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4JB	Bypass Jejunum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZA	Bypass Jejunum to Jejunum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A4ZB	Bypass Jejunum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1A87A	Bypass Jejunum to Jejunum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A87B	Bypass Jejunum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JA	Bypass Jejunum to Jejunum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8JB	Bypass Jejunum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KA	Bypass Jejunum to Jejunum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8KB	Bypass Jejunum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZA	Bypass Jejunum to Jejunum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZB	Bypass Jejunum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1A8ZH	Bypass Jejunum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B07B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0JB	Bypass Ileum to Ileum with Synthetic Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
0D1B0ZB	Bypass Ileum to Ileum, Open Approach	Procedure	ICD-10-PCS
0D1B47B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4JB	Bypass Ileum to Ileum with Synthetic Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B4ZB	Bypass Ileum to Ileum, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0D1B87B	Bypass Ileum to Ileum with Autologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8JB	Bypass Ileum to Ileum with Synthetic Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8KB	Bypass Ileum to Ileum with Nonautologous Tissue Substitute, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZB	Bypass Ileum to Ileum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0D1B8ZH	Bypass Ileum to Cecum, Via Natural or Artificial Opening Endoscopic	Procedure	ICD-10-PCS
0DB60Z3	Excision of Stomach, Open Approach, Vertical	Procedure	ICD-10-PCS
0DB60ZZ	Excision of Stomach, Open Approach	Procedure	ICD-10-PCS

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

Code	Description	Code Category	Code Type
0DB63Z3	Excision of Stomach, Percutaneous Approach, Vertical	Procedure	ICD-10-PCS
0DB63ZZ	Excision of Stomach, Percutaneous Approach	Procedure	ICD-10-PCS
0DB67Z3	Excision of Stomach, Via Natural or Artificial Opening, Vertical	Procedure	ICD-10-PCS
0DB67ZZ	Excision of Stomach, Via Natural or Artificial Opening	Procedure	ICD-10-PCS
0DB68Z3	Excision of Stomach, Via Natural or Artificial Opening Endoscopic, Vertical	Procedure	ICD-10-PCS
0DB80ZZ	Excision of Small Intestine, Open Approach	Procedure	ICD-10-PCS
0DB90ZZ	Excision of Duodenum, Open Approach	Procedure	ICD-10-PCS
0DBB0ZZ	Excision of Ileum, Open Approach	Procedure	ICD-10-PCS
0DQ64ZZ	Repair Stomach, Percutaneous Endoscopic Approach	Procedure	ICD-10-PCS
0DV64CZ	Restriction of Stomach with Extraluminal Device, Percutaneous Endoscopic	Procedure	ICD-10-PCS
0F190Z3	Bypass Common Bile Duct to Duodenum, Open Approach	Procedure	ICD-10-PCS
0TRB07Z	Replacement of Bladder with Autologous Tissue Substitute, Open Approach	Procedure	ICD-10-PCS
278.03	Obesity hypoventilation syndrome	Diagnosis	ICD-9-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
<b>Overweight</b>			
278.02	Overweight	Diagnosis	ICD-9-CM
V85.2	Body Mass Index between 25-29, adult	Diagnosis	ICD-9-CM
V85.21	Body Mass Index 25.0-25.9, adult	Diagnosis	ICD-9-CM
V85.22	Body Mass Index 26.0-26.9, adult	Diagnosis	ICD-9-CM
V85.23	Body Mass Index 27.0-27.9, adult	Diagnosis	ICD-9-CM
V85.24	Body Mass Index 28.0-28.9, adult	Diagnosis	ICD-9-CM
V85.25	Body Mass Index 29.0-29.9, adult	Diagnosis	ICD-9-CM
E66.3	Overweight	Diagnosis	ICD-10-CM
Z68.25	Body mass index (BMI) 25.0-25.9, adult	Diagnosis	ICD-10-CM
Z68.26	Body mass index (BMI) 26.0-26.9, adult	Diagnosis	ICD-10-CM
Z68.27	Body mass index (BMI) 27.0-27.9, adult	Diagnosis	ICD-10-CM
Z68.28	Body mass index (BMI) 28.0-28.9, adult	Diagnosis	ICD-10-CM
Z68.29	Body mass index (BMI) 29.0-29.9, adult	Diagnosis	ICD-10-CM
<b>Smoking</b>			
305.1	Nondependent tobacco use disorder	Diagnosis	ICD-9-CM
649.0	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium	Diagnosis	ICD-9-CM
649.00	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, unspecified as to episode of care or not applicable	Diagnosis	ICD-9-CM
649.01	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with or without mention of antepartum condition	Diagnosis	ICD-9-CM
649.02	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, delivered, with mention of postpartum complication	Diagnosis	ICD-9-CM
649.03	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, antepartum condition or complication	Diagnosis	ICD-9-CM
649.04	Tobacco use disorder complicating pregnancy, childbirth, or the puerperium, postpartum condition or complication	Diagnosis	ICD-9-CM
989.84	Toxic effect of tobacco	Diagnosis	ICD-9-CM
V15.82	Personal history of tobacco use, presenting hazards to health	Diagnosis	ICD-9-CM
F17.200	Nicotine dependence, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F17.201	Nicotine dependence, unspecified, in remission	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
F17.210	Nicotine dependence, cigarettes, uncomplicated	Diagnosis	ICD-10-CM
F17.211	Nicotine dependence, cigarettes, in remission	Diagnosis	ICD-10-CM
F17.220	Nicotine dependence, chewing tobacco, uncomplicated	Diagnosis	ICD-10-CM
F17.221	Nicotine dependence, chewing tobacco, in remission	Diagnosis	ICD-10-CM
F17.290	Nicotine dependence, other tobacco product, uncomplicated	Diagnosis	ICD-10-CM
F17.291	Nicotine dependence, other tobacco product, in remission	Diagnosis	ICD-10-CM
O99.330	Smoking (tobacco) complicating pregnancy, unspecified trimester	Diagnosis	ICD-10-CM
O99.331	Smoking (tobacco) complicating pregnancy, first trimester	Diagnosis	ICD-10-CM
O99.332	Smoking (tobacco) complicating pregnancy, second trimester	Diagnosis	ICD-10-CM
O99.333	Smoking (tobacco) complicating pregnancy, third trimester	Diagnosis	ICD-10-CM
O99.334	Smoking (tobacco) complicating childbirth	Diagnosis	ICD-10-CM
O99.335	Smoking (tobacco) complicating the puerperium	Diagnosis	ICD-10-CM
T65.211A	Toxic effect of chewing tobacco, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.212A	Toxic effect of chewing tobacco, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.213A	Toxic effect of chewing tobacco, assault, initial encounter	Diagnosis	ICD-10-CM
T65.214A	Toxic effect of chewing tobacco, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.221A	Toxic effect of tobacco cigarettes, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.222A	Toxic effect of tobacco cigarettes, intentional self-harm, initial encounter	Diagnosis	ICD-10-CM
T65.223A	Toxic effect of tobacco cigarettes, assault, initial encounter	Diagnosis	ICD-10-CM
T65.224A	Toxic effect of tobacco cigarettes, undetermined, initial encounter	Diagnosis	ICD-10-CM
T65.291A	Toxic effect of other tobacco and nicotine, accidental (unintentional), initial encounter	Diagnosis	ICD-10-CM
T65.292A	Toxic effect of other tobacco and nicotine, intentional self-harm, initial	Diagnosis	ICD-10-CM
T65.293A	Toxic effect of other tobacco and nicotine, assault, initial encounter	Diagnosis	ICD-10-CM
T65.294A	Toxic effect of other tobacco and nicotine, undetermined, initial encounter	Diagnosis	ICD-10-CM
Z87.891	Personal history of nicotine dependence	Diagnosis	ICD-10-CM
99406	Smoking and tobacco use cessation counseling visit; intermediate, greater than 3 minutes up to 10 minutes	Procedure	CPT-4
99407	Smoking and tobacco use cessation counseling visit; intensive, greater than 10	Procedure	CPT-4
S9075	Smoking cessation treatment	Procedure	HCPCS
S9453	Smoking cessation classes, nonphysician provider, per session	Procedure	HCPCS
Alcohol Abuse			
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
303.0	Acute alcoholic intoxication	Diagnosis	ICD-9-CM
303.00	Acute alcoholic intoxication, unspecified	Diagnosis	ICD-9-CM

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

Code	Description	Code Category	Code Type
303.01	Acute alcoholic intoxication, continuous	Diagnosis	ICD-9-CM
303.02	Acute alcoholic intoxication, episodic	Diagnosis	ICD-9-CM
303.03	Acute alcoholic intoxication, in remission	Diagnosis	ICD-9-CM
303.9	Other and unspecified alcohol dependence	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
303.93	Other and unspecified alcohol dependence, in remission	Diagnosis	ICD-9-CM
305.0	Nondependent alcohol abuse	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
305.03	Nondependent alcohol abuse, in remission	Diagnosis	ICD-9-CM
357.5	Alcoholic polyneuropathy	Diagnosis	ICD-9-CM
425.5	Alcoholic cardiomyopathy	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
E860.0	Accidental poisoning by alcoholic beverages	Diagnosis	ICD-9-CM
V11.3	Personal history of alcoholism	Diagnosis	ICD-9-CM
F10.10	Alcohol abuse, uncomplicated	Diagnosis	ICD-10-CM
F10.11	Alcohol abuse, in remission	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
F10.14	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
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
F10.21	Alcohol dependence, in remission	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

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Code	Description	Code Category	Code Type
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
F10.94	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 disorder	Diagnosis	ICD-10-CM
F10.97	Alcohol use, unspecified with alcohol-induced persisting dementia	Diagnosis	ICD-10-CM
F10.980	Alcohol use, unspecified with alcohol-induced anxiety disorder	Diagnosis	ICD-10-CM
F10.981	Alcohol use, unspecified with alcohol-induced sexual dysfunction	Diagnosis	ICD-10-CM
F10.982	Alcohol use, unspecified with alcohol-induced sleep disorder	Diagnosis	ICD-10-CM
F10.988	Alcohol use, unspecified with other alcohol-induced disorder	Diagnosis	ICD-10-CM
F10.99	Alcohol use, unspecified with unspecified alcohol-induced disorder	Diagnosis	ICD-10-CM
G62.1	Alcoholic polyneuropathy	Diagnosis	ICD-10-CM
I42.6	Alcoholic cardiomyopathy	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
Z65.8	Other specified problems related to psychosocial circumstances	Diagnosis	ICD-10-CM
535.3	Alcoholic gastritis	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
790.3	Excessive blood level of alcohol	Diagnosis	ICD-9-CM
K29.20	Alcoholic gastritis without bleeding	Diagnosis	ICD-10-CM
K29.21	Alcoholic gastritis with bleeding	Diagnosis	ICD-10-CM
R78.0	Finding of alcohol in blood	Diagnosis	ICD-10-CM
94.46	Alcoholism counseling	Procedure	ICD-9-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
94.53	Referral for alcoholism rehabilitation	Procedure	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
94.67	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
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	Procedure	ICD-10-PCS
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
HZ41ZZZ	Group Counseling for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ42ZZZ	Group Counseling for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ43ZZZ	Group Counseling for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ44ZZZ	Group Counseling for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ45ZZZ	Group Counseling for Substance Abuse Treatment, Vocational	Procedure	ICD-10-PCS
HZ46ZZZ	Group Counseling for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ47ZZZ	Group Counseling for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ48ZZZ	Group Counseling for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ49ZZZ	Group Counseling for Substance Abuse Treatment, Continuing Care	Procedure	ICD-10-PCS
HZ4BZZZ	Group Counseling for Substance Abuse Treatment, Spiritual	Procedure	ICD-10-PCS
HZ50ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Cognitive	Procedure	ICD-10-PCS
HZ51ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Behavioral	Procedure	ICD-10-PCS
HZ52ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Cognitive-Behavioral	Procedure	ICD-10-PCS
HZ53ZZZ	Individual Psychotherapy for Substance Abuse Treatment, 12-Step	Procedure	ICD-10-PCS
HZ54ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Interpersonal	Procedure	ICD-10-PCS
HZ55ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Interactive	Procedure	ICD-10-PCS
HZ56ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychoeducation	Procedure	ICD-10-PCS
HZ57ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Motivational Enhancement	Procedure	ICD-10-PCS
HZ58ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Confrontational	Procedure	ICD-10-PCS
HZ59ZZZ	Individual Psychotherapy for Substance Abuse Treatment, Supportive	Procedure	ICD-10-PCS
HZ5BZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychoanalysis	Procedure	ICD-10-PCS
HZ5CZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychodynamic	Procedure	ICD-10-PCS
HZ5DZZZ	Individual Psychotherapy for Substance Abuse Treatment, Psychophysiological	Procedure	ICD-10-PCS

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Code	Description	Code Category	Code Type
HZ63ZZZ	Family Counseling for Substance Abuse Treatment	Procedure	ICD-10-PCS
HZ83ZZZ	Medication Management for Substance Abuse Treatment, Antabuse	Procedure	ICD-10-PCS
HZ86ZZZ	Medication Management for Substance Abuse Treatment, Clonidine	Procedure	ICD-10-PCS
HZ88ZZZ	Medication Management for Substance Abuse Treatment, Psychiatric	Procedure	ICD-10-PCS
HZ89ZZZ	Medication Management for Substance Abuse Treatment, Other Replacement Medication	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
HZ98ZZZ	Pharmacotherapy for Substance Abuse Treatment, Psychiatric Medication	Procedure	ICD-10-PCS
HZ99ZZZ	Pharmacotherapy for Substance Abuse Treatment, Other Replacement	Procedure	ICD-10-PCS
<b>Drug Abuse</b>			
292.0	Drug withdrawal	Diagnosis	ICD-9-CM
292.1	Drug-induced psychotic disorder	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
292.8	Other specified drug-induced mental disorders	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
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
305.23	Nondependent cannabis abuse, in remission	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
305.33	Nondependent hallucinogen abuse, in remission	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
305.43	Nondependent sedative, hypnotic or anxiolytic abuse, in remission	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
305.52	Nondependent opioid abuse, episodic	Diagnosis	ICD-9-CM
305.53	Nondependent opioid abuse, in remission	Diagnosis	ICD-9-CM
305.6	Nondependent cocaine abuse	Diagnosis	ICD-9-CM

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Code	Description	Code Category	Code Type
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
305.63	Nondependent cocaine abuse, in remission	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, in remission	Diagnosis	ICD-9-CM
305.73	Nondependent amphetamine or related acting sympathomimetic abuse, in remission	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
305.83	Nondependent antidepressant type abuse, in remission	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
305.93	Other, mixed, or unspecified nondependent drug abuse, in remission	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
F11.10	Opioid abuse, uncomplicated	Diagnosis	ICD-10-CM
F11.11	Opioid abuse, in remission	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
F11.14	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

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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F13.11	Sedative, hypnotic or anxiolytic abuse, in remission	Diagnosis	ICD-10-CM
F13.120	Sedative, hypnotic or anxiolytic abuse with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.121	Sedative, hypnotic or anxiolytic abuse with intoxication delirium	Diagnosis	ICD-10-CM
F13.129	Sedative, hypnotic or anxiolytic abuse with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.14	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
F13.220	Sedative, hypnotic or anxiolytic dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F13.221	Sedative, hypnotic or anxiolytic dependence with intoxication delirium	Diagnosis	ICD-10-CM
F13.229	Sedative, hypnotic or anxiolytic dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.230	Sedative, hypnotic or anxiolytic dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.231	Sedative, hypnotic or anxiolytic dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F13.232	Sedative, hypnotic or anxiolytic dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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,	Diagnosis	ICD-10-CM
F13.921	Sedative, hypnotic or anxiolytic use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F13.929	Sedative, hypnotic or anxiolytic use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F13.930	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F13.931	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F13.932	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal with perceptual disturbances	Diagnosis	ICD-10-CM
F13.939	Sedative, hypnotic or anxiolytic use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F13.94	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced mood disorder	Diagnosis	ICD-10-CM
F13.950	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F13.951	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F13.959	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F13.96	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced persisting 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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F13.981	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sexual dysfunction	Diagnosis	ICD-10-CM
F13.982	Sedative, hypnotic or anxiolytic use, unspecified with sedative, hypnotic or anxiolytic-induced sleep disorder	Diagnosis	ICD-10-CM
F13.988	Sedative, hypnotic or anxiolytic use, unspecified with other sedative, hypnotic or	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
F14.11	Cocaine abuse, in remission	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
F14.14	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 hallucinations	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
F14.220	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, unspecified	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
F14.94	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

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

Code	Description	Code Category	Code Type
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
F15.11	Other stimulant abuse, in remission	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
F15.14	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
F15.220	Other stimulant dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.221	Other stimulant dependence with intoxication delirium	Diagnosis	ICD-10-CM
F15.222	Other stimulant dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.229	Other stimulant dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.23	Other stimulant dependence with withdrawal	Diagnosis	ICD-10-CM
F15.24	Other stimulant dependence with stimulant-induced mood disorder	Diagnosis	ICD-10-CM
F15.250	Other stimulant dependence with stimulant-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F15.251	Other stimulant dependence with stimulant-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F15.259	Other stimulant dependence with stimulant-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F15.280	Other stimulant dependence with stimulant-induced anxiety disorder	Diagnosis	ICD-10-CM
F15.281	Other stimulant dependence with stimulant-induced sexual dysfunction	Diagnosis	ICD-10-CM
F15.282	Other stimulant dependence with stimulant-induced sleep disorder	Diagnosis	ICD-10-CM
F15.288	Other stimulant dependence with other stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.29	Other stimulant dependence with unspecified stimulant-induced disorder	Diagnosis	ICD-10-CM
F15.90	Other stimulant use, unspecified, uncomplicated	Diagnosis	ICD-10-CM
F15.920	Other stimulant use, unspecified with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F15.921	Other stimulant use, unspecified with intoxication delirium	Diagnosis	ICD-10-CM
F15.922	Other stimulant use, unspecified with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F15.929	Other stimulant use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F15.93	Other stimulant use, unspecified with withdrawal	Diagnosis	ICD-10-CM

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F16.11	Hallucinogen abuse, in remission	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
F16.220	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

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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	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
F17.229	Nicotine dependence, chewing tobacco, with unspecified nicotine-induced	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
F18.11	Inhalant abuse, in remission	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
F18.220	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
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
F19.11	Other psychoactive substance abuse, in remission	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
F19.14	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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
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
F19.21	Other psychoactive substance dependence, in remission	Diagnosis	ICD-10-CM
F19.220	Other psychoactive substance dependence with intoxication, uncomplicated	Diagnosis	ICD-10-CM
F19.221	Other psychoactive substance dependence with intoxication delirium	Diagnosis	ICD-10-CM
F19.222	Other psychoactive substance dependence with intoxication with perceptual disturbance	Diagnosis	ICD-10-CM
F19.229	Other psychoactive substance dependence with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.230	Other psychoactive substance dependence with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.231	Other psychoactive substance dependence with withdrawal delirium	Diagnosis	ICD-10-CM
F19.232	Other psychoactive substance dependence with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.239	Other psychoactive substance dependence with withdrawal, unspecified	Diagnosis	ICD-10-CM
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

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

<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
F19.929	Other psychoactive substance use, unspecified with intoxication, unspecified	Diagnosis	ICD-10-CM
F19.930	Other psychoactive substance use, unspecified with withdrawal, uncomplicated	Diagnosis	ICD-10-CM
F19.931	Other psychoactive substance use, unspecified with withdrawal delirium	Diagnosis	ICD-10-CM
F19.932	Other psychoactive substance use, unspecified with withdrawal with perceptual disturbance	Diagnosis	ICD-10-CM
F19.939	Other psychoactive substance use, unspecified with withdrawal, unspecified	Diagnosis	ICD-10-CM
F19.94	Other psychoactive substance use, unspecified with psychoactive substance-induced mood disorder	Diagnosis	ICD-10-CM
F19.950	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with delusions	Diagnosis	ICD-10-CM
F19.951	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder with hallucinations	Diagnosis	ICD-10-CM
F19.959	Other psychoactive substance use, unspecified with psychoactive substance-induced psychotic disorder, unspecified	Diagnosis	ICD-10-CM
F19.96	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting amnesic disorder	Diagnosis	ICD-10-CM
F19.97	Other psychoactive substance use, unspecified with psychoactive substance-induced persisting dementia	Diagnosis	ICD-10-CM
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
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
<b>Coronary artery bypass surgery</b>			
V45.81	Postprocedural aortocoronary bypass status	Diagnosis	ICD-9-CM
V45.82	Postprocedural percutaneous transluminal coronary angioplasty status	Diagnosis	ICD-9-CM
Z95.1	Presence of aortocoronary bypass graft	Diagnosis	ICD-10-CM
Z95.5	Presence of coronary angioplasty implant and graft	Diagnosis	ICD-10-CM

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

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<b>Code</b>	<b>Description</b>	<b>Code Category</b>	<b>Code Type</b>
Z98.61	Coronary angioplasty status	Diagnosis	ICD-10-CM
<b>History of Cardiac Arrest</b>			
V12.53	Personal history of sudden cardiac arrest	Diagnosis	ICD-9-CM
Z86.74	Personal history of sudden cardiac arrest	Diagnosis	ICD-10-CM

**Appendix F. List of Generic Drug Name Used to Define Baseline Characteristics of Interest in this Request**

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**Generic Name**

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**Obesity**

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phendimetrazine tartrate  
phentermine HCl  
phentermine HCl/topiramate  
benzphetamine HCl  
diethylpropion HCl  
phentermine resin  
orlistat  
sibutramine HCl m-hydrate  
lorcaserin HCl

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**Smoking**

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nicotine  
nicotine polacrilex  
varenicline tartrate  
bupropion HCl  
silver nitrate  
nicotine bitartrate

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

This request utilized the Cohort Identification and Descriptive Analysis (CIDA) module, version 7.3.3 to observe baseline characteristics and investigate follow-up time among new users of 38 new molecular entities (NMEs) approved in 2011 in the Sentinel Distributed Database (SDD).

**Query Period:** January 1, 2012 - January 31, 2019  
**Enrollment Gap:** 45 days  
**Age Groups:** 0-18, 19-64, and 65+ years  
**Enrollment Requirement:** 365 days  
**Coverage Requirement:** Medical and Drug Coverage  
**Follow-up intervals:** 1-364, 365-729, 730-1094, 1095-1459, 1460-1824, 1825+ days

Scenario	Drug/Exposure					Follow-up		Baseline Characteristics
	Exposure	Incident with Respect to:	Care Setting	Washout (days)	Cohort Definition	Follow-up Start	Follow-up End	Baseline Characteristics
1	Acclidinium Bromide	Acclidinium Bromide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
2	Apixaban	Apixaban	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
3	Avanafil	Avanafil	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
4	Axitinib	Axitinib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
5	Bedaquiline	Bedaquiline	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
6	Bosutinib	Bosutinib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
7	Cabozantinib	Cabozantinib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
8	Carfilizomib	Carfilizomib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
9	Choline C 11	Choline C 12	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F

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

Scenario	Drug/Exposure					Follow-up		Baseline Characteristics
	Exposure	Incident with respect to:	Care Setting	Washout (days)	Cohort Definition	Follow-up Start	Follow-up End	Baseline Characteristics
10	Crofelemer	Crofelemer	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
11	Elvitegravir/ Cobicistat/ Emtricitabine/ Tenofovir Disoproxil Fumarate	Elvitegravir/ Cobicistat/ Emtricitabine/ Tenofovir Disoproxil Fumarate	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
12	Enzalutamide	Enzalutamide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
13	Florbetapir F 18	Florbetapir F 19	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
14	Ingenol Mebutate	Ingenol Mebutate	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
15	Ivacaftor	Ivacaftor	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
16	Linaclotide	Linaclotide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
17	Lomitapide	Lomitapide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
18	Lorcaserin Hydrochloride	Lorcaserin Hydrochloride	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
19	Lucinactant	Lucinactant	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
20	Mirabegron	Mirabegron	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
21	Omacetaxine Mepesuccinate	Omacetaxine Mepesuccinate	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F

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

Scenario	Drug/Exposure				Follow-up		Baseline Characteristics	
	Exposure	Incident with respect to:	Care Setting	Washout (days)	Cohort Definition	Follow-up Start	Follow-up End	Baseline Characteristics
22	Pasireotide Dispartate	Pasireotide Dispartate	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
23	Peginesatide	Peginesatide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
24	Perampanel	Perampanel	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
25	Ponatinib	Ponatinib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
26	Regorafenib	Regorafenib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
27	Sodium Picosulfate/ Magnesium Oxide/ Citric Acid	Sodium Picosulfate/ Magnesium Oxide/ Citric Acid	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
28	Tafluprost	Tafluprost	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
29	Taliglucerase Alfa	Taliglucerase Alfa	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
30	Teduglutide	Teduglutide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
31	Teriflunomide	Teriflunomide	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
32	Tofacitinib	Tofacitinib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
33	Vismodegib	Vismodegib	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
34	Glucarpidase	Glucarpidase	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F

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

Scenario	Drug/Exposure					Follow-up		Baseline Characteristics
	Exposure	Incident with respect to:	Care Setting	Washout (days)	Cohort Definition	Follow-up Start	Follow-up End	Baseline Characteristics
<b>35</b>	Pertuzumab	Pertuzumab	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
<b>36</b>	Ziv-Aflibercept	Ziv-Aflibercept	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D, E, F
<b>37</b>	tbo-Filgrastim	tbo-Filgrastim	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D,E,F
<b>38</b>	Ocriplasmin	Ocriplasmin	Any	183	Include only the first valid exposure	First exposure	Censoring (disenrollment, death, Data Partner data end, query end)	See Appendix D,E,F

International Classification of Diseases, Ninth and Tenth Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM), International Classification of Diseases, Tenth Revision, Procedure Coding System (ICD-10-PCS), Healthcare Common Procedure Coding System (HCPCS), and Current Procedural Terminology, Fourth Edition (CPT-4) codes are provided by Optum 360.

National Drug Codes (NDCs) are checked against First Data Bank's "National Drug Data File (NDDF®) Plus.