

## Disclaimer

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

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

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

The following report contains a description of the request, request specifications, and results from the modular program run(s). If you are using a web page screen reader and are unable to access this document, please contact the Sentinel Operations Center for assistance at [info@sentinelsystem.org](mailto:info@sentinelsystem.org).

## Overview for Request: cder\_mpl1r\_wp264\_nsdp\_v01

**Request ID:** cder\_mpl1r\_wp264\_nsdp\_v01

**Request Description:** In this report we characterized dispensing patterns of all Glucagon-Like Peptide 1 Receptor Agonists (GLP-1RA), including semaglutide, dulaglutide, lixisenatide, exenatide, liraglutide and tirzepatide in the Sentinel Distributed Database (SDD).

**Sentinel Routine Querying Module:** Cohort Identification and Descriptive Analysis (CIDA) module, version 11.0.0.

**Data Source:** We distributed this request to six Sentinel Data Partners on October 13, 2023. These Data Partners are a subset of the SDD. Data from Medicare and Medicaid patients having both fee-for-service medical coverage and Part D drug coverage are included. The study period included data from October 1, 2015 through April 30, 2023. Please see Appendix A for a list of dates of available data for these Data Partners.

**Study Design:** We identified individuals with incident use of any of the GLP-1RAs who were at least 18 years of age at the time of initiation. We described demographic and clinical characteristics for individuals initiating each GLP-1RA based on history recorded in the six months prior to initiation of treatment with a GLP-1RA medical product. The analyses characterized dispensing patterns by examining days supplied per dispensing, cumulative exposure duration, first treatment episode, second and subsequent treatment episodes, all treatment episode gaps, and first treatment episode gap, overall and stratified by age and sex. This is a Type 5 analysis in the Query Request Package (QRP) documentation.

**Exposures:** Our exposures of interest were GLP-1RAs, including semaglutide, dulaglutide, lixisenatide, exenatide, liraglutide and tirzepatide administered or dispensed in any care setting. These were defined using National Drug Codes (NDC). Only the first qualifying (index) dispensing of either of these products was included; cohort re-entry was not allowed. We defined new use as no prior use of any GLP1-RA in the 183 days prior to the first index dispensing; all subsequent exposure episodes were included. Please see Appendix B for a list of generic and brand names used to define exposures in this request.

**Cohort Eligibility Criteria:** We defined the index exposure as the first qualifying dispensing of a GLP-1RA during the query period. We required individuals included in the cohorts to be enrolled in health plans with both medical and drug coverage for at least 183 days prior to the index exposure, during which gaps in coverage of up to 45 days were allowed and treated as continuous enrollment. The following age groups were included in the cohort: 18-21, 22-44, 45-64, 65-74, 75+ years.

**Baseline Characteristics:** We described demographic characteristics such as sex, age, and calendar year on the day of each index GLP-1RA exposure. We also described 28 clinical characteristics based on history recorded in the 183 days prior to the index exposure. Chronic conditions were defined using Centers for Medicare and Medicaid Services' (CMS) Chronic Conditions Data Warehouse<sup>1</sup> (CCW) algorithms and included: Acquired Hypothyroidism; Acute Myocardial Infarction; Alzheimer's Disease; Alzheimer's Disease, Related Disorders, or Senile Dementia; Anemia; Asthma; Atrial Fibrillation; Benign Prostatic Hyperplasia; Breast Cancer; Cataracts; Chronic Kidney Disease; Chronic Obstructive Pulmonary Disease; Colorectal Cancer; Depression; Diabetes; Endometrial Cancer; Glaucoma; Heart Failure; Hip / Pelvic Fracture; Hyperlipidemia; Hypertension; Ischemic Heart Disease; Lung Cancer; Obesity; Osteoporosis; Prostate Cancer; Rheumatoid Arthritis / Osteoarthritis; and Stroke / Transient Ischemic Attack.

Please see Appendix C for a list of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) diagnosis codes used to define baseline characteristics in this request.

**Please see Appendix D for detailed specifications for this request.**

**Please see Appendix E for a design diagram for this request.**

**Limitations:** As with all observational studies, this evaluation was limited in its ability to control for all sources of potential bias. Algorithms used to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect and may be misclassified. Therefore, data should be interpreted with this limitation in mind.

**Overview for Request: cder\_mpl1r\_wp264\_nsdp\_v01**

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

<sup>1</sup>Chronic Conditions Data Warehouse. Condition Categories -Chronic Conditions Data Warehouse.

<https://www.ccwdata.org/web/guest/condition-categories>

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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

**Principal Diagnosis (PDX)** - diagnosis or condition established to be chiefly responsible for admission of the patient to the hospital.

'P' = principal diagnosis, 'S' = secondary diagnosis, 'X' = unspecified diagnosis, '.' = blank. Along with the Care Setting values, forms the Caresetting/PDX parameter.

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

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

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

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

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

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

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

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

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

\*all terms may not be used in this report

**Table 1a. Aggregated Characteristics of All GLP1 Receptor Agonists in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

All GLP1 Receptor Agonists		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	2,558,183	N/A
<b>Demographic Characteristics</b>		
Age (years)	59.3	11.2
Age		
18-21 years	10,009	0.4%
22-44 years	400,541	15.7%
45-64 years	1,128,355	44.1%
65-74 years	748,399	29.3%
≥ 75 years	270,879	10.6%
Sex		
Female	1,483,641	58.0%
Male	1,074,542	42.0%
Race <sup>2</sup>		
American Indian or Alaska Native	18,155	0.7%
Asian	41,652	1.6%
Black or African American	240,227	9.4%
Native Hawaiian or Other Pacific Islander	5,626	0.2%
Unknown	1,067,767	41.7%
White	1,173,440	45.9%
Hispanic origin		
Yes	119,624	4.7%
No	1,359,262	53.1%
Unknown	1,079,297	42.2%
Year		
2015	38,347	1.5%
2016	192,609	7.5%
2017	247,571	9.7%
2018	292,460	11.4%

**Table 1a. Aggregated Characteristics of All GLP1 Receptor Agonists in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

All GLP1 Receptor Agonists		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	350,838	13.7%
2020	372,526	14.6%
2021	397,395	15.5%
2022	567,518	22.2%
2023	98,919	3.9%
Health Characteristics		
Endometrial Cancer	10,729	0.4%
Glaucoma	188,543	7.4%
Cataracts	383,131	15.0%
Acquired Hypothyroidism	460,930	18.0%
Lung Cancer	9,154	0.4%
Benign Prostatic Hyperplasia	157,035	6.1%
Colorectal Cancer	17,661	0.7%
Ischemic Heart Disease	457,521	17.9%
Osteoporosis	77,300	3.0%
Heart Failure	232,655	9.1%
Stroke / Transient Ischemic Attack	84,220	3.3%
Atrial Fibrillation	170,237	6.7%
Alzheimer's Disease, Related Disorders, or Senile Dementia	51,514	2.0%
Hypertension	1,803,545	70.5%
Anemia	381,955	14.9%
Hyperlipidemia	1,637,533	64.0%
Depression	492,305	19.2%
Chronic Kidney Disease	1,274,215	49.8%
Breast Cancer	55,065	2.2%
Acute Myocardial Infarction	35,741	1.4%
Asthma	222,467	8.7%
Alzheimer's Disease	12,050	0.5%

**Table 1a. Aggregated Characteristics of All GLP1 Receptor Agonists in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

All GLP1 Receptor Agonists		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	637,167	24.9%
Prostate Cancer	40,332	1.6%
Chronic Obstructive Pulmonary Disease	274,344	10.7%
Hip / Pelvic Fracture	4,348	0.2%
Diabetes	2,112,054	82.6%
Obesity	1,137,006	44.4%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	11.2	11.9
Mean number of emergency room encounters	0.4	1.1
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.3	12.6
Mean number of filled prescriptions	25.3	21.3
Mean number of generics dispensed	9.7	5.5

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 1b. Aggregated Characteristics of Semaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Semaglutide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	1,124,563	N/A
<b>Demographic Characteristics</b>		
Age (years)	59.6	11.1
Age		
18-21 years	3,562	0.3%
22-44 years	170,058	15.1%
45-64 years	487,755	43.4%
65-74 years	342,981	30.5%
≥ 75 years	120,207	10.7%
Sex		
Female	662,729	58.9%
Male	461,834	41.1%
Race <sup>2</sup>		
American Indian or Alaska Native	7,492	0.7%
Asian	16,392	1.5%
Black or African American	85,992	7.6%
Native Hawaiian or Other Pacific Islander	2,034	0.2%
Unknown	518,171	46.1%
White	487,254	43.3%
Hispanic origin		
Yes	38,182	3.4%
No	526,320	46.8%
Unknown	560,061	49.8%
Year		
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	32,595	2.9%

**Table 1b. Aggregated Characteristics of Semaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Demographic Characteristics	Semaglutide	
	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	137,466	12.2%
2020	186,500	16.6%
2021	268,895	23.9%
2022	413,098	36.7%
2023	86,009	7.6%
<b>Health Characteristics</b>		
Endometrial Cancer	4,997	0.4%
Glaucoma	82,624	7.3%
Cataracts	170,794	15.2%
Acquired Hypothyroidism	217,640	19.4%
Lung Cancer	4,006	0.4%
Benign Prostatic Hyperplasia	72,614	6.5%
Colorectal Cancer	7,579	0.7%
Ischemic Heart Disease	194,813	17.3%
Osteoporosis	36,785	3.3%
Heart Failure	95,067	8.5%
Stroke / Transient Ischemic Attack	32,066	2.9%
Atrial Fibrillation	75,624	6.7%
Alzheimer's Disease, Related Disorders, or Senile Dementia	16,386	1.5%
Hypertension	790,403	70.3%
Anemia	169,041	15.0%
Hyperlipidemia	747,878	66.5%
Depression	209,685	18.6%
Chronic Kidney Disease	526,252	46.8%
Breast Cancer	26,156	2.3%
Acute Myocardial Infarction	14,111	1.3%
Asthma	98,239	8.7%
Alzheimer's Disease	3,556	0.3%

**Table 1b. Aggregated Characteristics of Semaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Semaglutide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	287,777	25.6%
Prostate Cancer	18,798	1.7%
Chronic Obstructive Pulmonary Disease	105,978	9.4%
Hip / Pelvic Fracture	1,636	0.1%
Diabetes	877,133	78.0%
Obesity	565,181	50.3%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	11.1	11.5
Mean number of emergency room encounters	0.3	1.0
Mean number of inpatient hospital encounters	0.1	0.4
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	3.3	8.5
Mean number of filled prescriptions	23.1	19.2
Mean number of generics dispensed	9.3	5.3

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 1c. Aggregated Characteristics of Dulaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Dulaglutide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	1,037,738	N/A
<b>Demographic Characteristics</b>		
Age (years)	61.6	10.8
Age		
18-21 years	2,243	0.2%
22-44 years	113,715	11.0%
45-64 years	441,026	42.5%
65-74 years	343,101	33.1%
≥ 75 years	137,653	13.3%
Sex		
Female	559,508	53.9%
Male	478,230	46.1%
Race <sup>2</sup>		
American Indian or Alaska Native	5,339	0.5%
Asian	19,966	1.9%
Black or African American	104,556	10.1%
Native Hawaiian or Other Pacific Islander	2,397	0.2%
Unknown	385,210	37.1%
White	517,012	49.8%
Hispanic origin		
Yes	51,387	5.0%
No	607,200	58.5%
Unknown	379,151	36.5%
Year		
2015	8,950	0.9%
2016	69,139	6.7%
2017	112,741	10.9%
2018	136,934	13.2%

**Table 1c. Aggregated Characteristics of Dulaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Dulaglutide		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	166,100	16.0%
2020	172,964	16.7%
2021	170,466	16.4%
2022	182,639	17.6%
2023	17,805	1.7%
Health Characteristics		
Endometrial Cancer	4,643	0.4%
Glaucoma	88,498	8.5%
Cataracts	180,500	17.4%
Acquired Hypothyroidism	188,675	18.2%
Lung Cancer	4,339	0.4%
Benign Prostatic Hyperplasia	74,947	7.2%
Colorectal Cancer	8,198	0.8%
Ischemic Heart Disease	212,810	20.5%
Osteoporosis	35,068	3.4%
Heart Failure	107,893	10.4%
Stroke / Transient Ischemic Attack	40,590	3.9%
Atrial Fibrillation	78,467	7.6%
Alzheimer's Disease, Related Disorders, or Senile Dementia	29,096	2.8%
Hypertension	788,295	76.0%
Anemia	168,243	16.2%
Hyperlipidemia	723,131	69.7%
Depression	200,282	19.3%
Chronic Kidney Disease	605,292	58.3%
Breast Cancer	23,830	2.3%
Acute Myocardial Infarction	16,607	1.6%
Asthma	88,219	8.5%
Alzheimer's Disease	6,980	0.7%

**Table 1c. Aggregated Characteristics of Dulaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Dulaglutide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	267,466	25.8%
Prostate Cancer	19,009	1.8%
Chronic Obstructive Pulmonary Disease	121,748	11.7%
Hip / Pelvic Fracture	2,122	0.2%
Diabetes	967,618	93.2%
Obesity	424,156	40.9%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	11.6	12.2
Mean number of emergency room encounters	0.4	1.1
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	4.6	12.9
Mean number of filled prescriptions	27.6	22.5
Mean number of generics dispensed	10.4	5.5

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 1d. Aggregated Characteristics of Lixisenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Lixisenatide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	725	N/A
<b>Demographic Characteristics</b>		
Age (years)	50.9	10.3
Age		
18-21 years	*****	*****
22-44 years	192	26.5%
45-64 years	496	68.4%
65-74 years	24	3.3%
≥ 75 years	*****	*****
Sex		
Female	456	62.9%
Male	269	37.1%
Race <sup>2</sup>		
American Indian or Alaska Native	*****	*****
Asian	28	3.9%
Black or African American	65	9.0%
Native Hawaiian or Other Pacific Islander	*****	*****
Unknown	334	46.1%
White	283	39.0%
Hispanic origin		
Yes	167	23.0%
No	389	53.7%
Unknown	169	23.3%
Year		
2015	0	0.0%
2016	0	0.0%
2017	88	12.1%
2018	169	23.3%

**Table 1d. Aggregated Characteristics of Lixisenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Lixisenatide		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	312	43.0%
2020	121	16.7%
2021	17	2.3%
2022	18	2.5%
2023	0	0.0%
<b>Health Characteristics</b>		
Endometrial Cancer	0	0.0%
Glaucoma	36	5.0%
Cataracts	63	8.7%
Acquired Hypothyroidism	90	12.4%
Lung Cancer	0	0.0%
Benign Prostatic Hyperplasia	21	2.9%
Colorectal Cancer	*****	*****
Ischemic Heart Disease	78	10.8%
Osteoporosis	*****	*****
Heart Failure	41	5.7%
Stroke / Transient Ischemic Attack	11	1.5%
Atrial Fibrillation	23	3.2%
Alzheimer's Disease, Related Disorders, or Senile Dementia	*****	*****
Hypertension	376	51.9%
Anemia	86	11.9%
Hyperlipidemia	325	44.8%
Depression	127	17.5%
Chronic Kidney Disease	416	57.4%
Breast Cancer	*****	*****
Acute Myocardial Infarction	*****	*****
Asthma	51	7.0%
Alzheimer's Disease	*****	*****

**Table 1d. Aggregated Characteristics of Lixisenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Lixisenatide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	150	20.7%
Prostate Cancer	*****	*****
Chronic Obstructive Pulmonary Disease	58	8.0%
Hip / Pelvic Fracture	0	0.0%
Diabetes	686	94.6%
Obesity	245	33.8%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	12.3	11.8
Mean number of emergency room encounters	0.5	1.1
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	6.3	14.5
Mean number of filled prescriptions	40.9	27.2
Mean number of generics dispensed	12.3	6.2

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

\*\*\*\*\*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.

N/A: Not Applicable

**Table 1e. Aggregated Characteristics of Exenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Exenatide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	243,453	N/A
<b>Demographic Characteristics</b>		
Age (years)	58.4	10.7
Age		
18-21 years	1,020	0.4%
22-44 years	38,252	15.7%
45-64 years	118,570	48.7%
65-74 years	64,531	26.5%
≥ 75 years	21,080	8.7%
Sex		
Female	139,363	57.2%
Male	104,090	42.8%
Race <sup>2</sup>		
American Indian or Alaska Native	2,532	1.0%
Asian	4,584	1.9%
Black or African American	27,802	11.4%
Native Hawaiian or Other Pacific Islander	503	0.2%
Unknown	85,914	35.3%
White	121,693	50.0%
Hispanic origin		
Yes	18,356	7.5%
No	153,381	63.0%
Unknown	71,716	29.5%
Year		
2015	11,545	4.7%
2016	45,369	18.6%
2017	43,778	18.0%
2018	53,856	22.1%

**Table 1e. Aggregated Characteristics of Exenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Exenatide		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	42,294	17.4%
2020	32,166	13.2%
2021	8,649	3.6%
2022	5,387	2.2%
2023	409	0.2%
<b>Health Characteristics</b>		
Endometrial Cancer	946	0.4%
Glaucoma	18,285	7.5%
Cataracts	35,695	14.7%
Acquired Hypothyroidism	40,431	16.6%
Lung Cancer	707	0.3%
Benign Prostatic Hyperplasia	13,362	5.5%
Colorectal Cancer	1,506	0.6%
Ischemic Heart Disease	42,585	17.5%
Osteoporosis	6,577	2.7%
Heart Failure	20,720	8.5%
Stroke / Transient Ischemic Attack	8,097	3.3%
Atrial Fibrillation	13,950	5.7%
Alzheimer's Disease, Related Disorders, or Senile Dementia	4,750	2.0%
Hypertension	174,781	71.8%
Anemia	32,914	13.5%
Hyperlipidemia	151,900	62.4%
Depression	48,401	19.9%
Chronic Kidney Disease	137,134	56.3%
Breast Cancer	4,712	1.9%
Acute Myocardial Infarction	2,887	1.2%
Asthma	21,339	8.8%
Alzheimer's Disease	1,149	0.5%

**Table 1e. Aggregated Characteristics of Exenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Exenatide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	60,243	24.7%
Prostate Cancer	3,313	1.4%
Chronic Obstructive Pulmonary Disease	29,944	12.3%
Hip / Pelvic Fracture	408	0.2%
Diabetes	228,218	93.7%
Obesity	87,935	36.1%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	11.5	11.6
Mean number of emergency room encounters	0.5	1.2
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	6.3	19.1
Mean number of filled prescriptions	32.0	25.0
Mean number of generics dispensed	11.2	6.0

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 1f. Aggregated Characteristics of Liraglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Liraglutide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	652,088	N/A
<b>Demographic Characteristics</b>		
Age (years)	56.5	11.3
Age		
18-21 years	4,012	0.6%
22-44 years	134,853	20.7%
45-64 years	308,248	47.3%
65-74 years	155,975	23.9%
≥ 75 years	49,000	7.5%
Sex		
Female	413,429	63.4%
Male	238,659	36.6%
Race <sup>2</sup>		
American Indian or Alaska Native	6,934	1.1%
Asian	8,812	1.4%
Black or African American	66,353	10.2%
Native Hawaiian or Other Pacific Islander	1,620	0.2%
Unknown	266,333	40.8%
White	299,805	46.0%
Hispanic origin		
Yes	34,277	5.3%
No	362,642	55.6%
Unknown	255,169	39.1%
Year		
2015	23,131	3.5%
2016	108,122	16.6%
2017	125,672	19.3%
2018	125,799	19.3%

**Table 1f. Aggregated Characteristics of Liraglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Liraglutide		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	100,281	15.4%
2020	79,999	12.3%
2021	38,546	5.9%
2022	45,131	6.9%
2023	5,407	0.8%
Health Characteristics		
Endometrial Cancer	2,504	0.4%
Glaucoma	43,528	6.7%
Cataracts	86,761	13.3%
Acquired Hypothyroidism	114,532	17.6%
Lung Cancer	1,893	0.3%
Benign Prostatic Hyperplasia	29,670	4.5%
Colorectal Cancer	3,967	0.6%
Ischemic Heart Disease	109,268	16.8%
Osteoporosis	15,964	2.4%
Heart Failure	57,032	8.7%
Stroke / Transient Ischemic Attack	20,223	3.1%
Atrial Fibrillation	37,473	5.7%
Alzheimer's Disease, Related Disorders, or Senile Dementia	10,599	1.6%
Hypertension	432,406	66.3%
Anemia	90,978	14.0%
Hyperlipidemia	372,295	57.1%
Depression	138,884	21.3%
Chronic Kidney Disease	309,263	47.4%
Breast Cancer	12,387	1.9%
Acute Myocardial Infarction	9,020	1.4%
Asthma	60,938	9.3%
Alzheimer's Disease	2,418	0.4%

**Table 1f. Aggregated Characteristics of Liraglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Liraglutide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	157,993	24.2%
Prostate Cancer	7,425	1.1%
Chronic Obstructive Pulmonary Disease	72,452	11.1%
Hip / Pelvic Fracture	1,062	0.2%
Diabetes	513,069	78.7%
Obesity	287,601	44.1%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	11.7	12.4
Mean number of emergency room encounters	0.4	1.2
Mean number of inpatient hospital encounters	0.1	0.5
Mean number of non-acute institutional encounters	0.0	0.2
Mean number of other ambulatory encounters	5.2	15.6
Mean number of filled prescriptions	28.4	23.6
Mean number of generics dispensed	10.3	5.9

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 1g. Aggregated Characteristics of Tirzepatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Tirzepatide		
Patient Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Unique patients	89,319	N/A
<b>Demographic Characteristics</b>		
Age (years)	55.8	11.0
Age		
18-21 years	296	0.3%
22-44 years	18,160	20.3%
45-64 years	46,770	52.4%
65-74 years	19,174	21.5%
≥ 75 years	4,919	5.5%
Sex		
Female	57,289	64.1%
Male	32,030	35.9%
Race <sup>2</sup>		
American Indian or Alaska Native	133	0.1%
Asian	407	0.5%
Black or African American	4,255	4.8%
Native Hawaiian or Other Pacific Islander	96	0.1%
Unknown	57,104	63.9%
White	26,846	30.1%
Hispanic origin		
Yes	1,187	1.3%
No	27,805	31.1%
Unknown	60,327	67.5%
Year		
2015	0	0.0%
2016	0	0.0%
2017	0	0.0%
2018	0	0.0%

**Table 1g. Aggregated Characteristics of Tirzepatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Tirzepatide		
Demographic Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
2019	0	0.0%
2020	0	0.0%
2021	0	0.0%
2022	71,466	80.0%
2023	17,853	20.0%
Health Characteristics		
Endometrial Cancer	373	0.4%
Glaucoma	4,877	5.5%
Cataracts	10,264	11.5%
Acquired Hypothyroidism	18,143	20.3%
Lung Cancer	204	0.2%
Benign Prostatic Hyperplasia	4,279	4.8%
Colorectal Cancer	417	0.5%
Ischemic Heart Disease	11,420	12.8%
Osteoporosis	2,276	2.5%
Heart Failure	5,300	5.9%
Stroke / Transient Ischemic Attack	1,574	1.8%
Atrial Fibrillation	4,360	4.9%
Alzheimer's Disease, Related Disorders, or Senile Dementia	551	0.6%
Hypertension	57,516	64.4%
Anemia	11,792	13.2%
Hyperlipidemia	56,329	63.1%
Depression	15,695	17.6%
Chronic Kidney Disease	35,092	39.3%
Breast Cancer	1,734	1.9%
Acute Myocardial Infarction	721	0.8%
Asthma	7,838	8.8%
Alzheimer's Disease	98	0.1%

**Table 1g. Aggregated Characteristics of Tirzepatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Tirzepatide		
Health Characteristics	Number/Mean	Percent/ Standard Deviation <sup>1</sup>
Rheumatoid Arthritis / Osteoarthritis	22,440	25.1%
Prostate Cancer	951	1.1%
Chronic Obstructive Pulmonary Disease	6,551	7.3%
Hip / Pelvic Fracture	91	0.1%
Diabetes	62,576	70.1%
Obesity	51,056	57.2%
Health Service Utilization Intensity Metrics		
Mean number of ambulatory encounters	10.3	10.1
Mean number of emergency room encounters	0.3	0.9
Mean number of inpatient hospital encounters	0.1	0.3
Mean number of non-acute institutional encounters	0.0	0.1
Mean number of other ambulatory encounters	2.5	4.7
Mean number of filled prescriptions	21.0	17.5
Mean number of generics dispensed	8.7	5.3

<sup>1</sup>Value represents standard deviation where no % follows the value.

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

N/A: Not Applicable

**Table 2a. Categorical Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Number of Dispensings by Days Supplied								
	1-30 Days		31-60 Days		61-90 Days		91+ Days		
	Total Number of Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
<i>All GLP1 Receptor</i>									
Agonists	24,751,873	19,918,563	80.5%	1,089,384	4.4%	3,721,705	15.0%	22,221	0.1%
<i>Semaglutide</i>	7,222,351	5,448,681	75.4%	542,748	7.5%	1,221,452	16.9%	9,470	0.1%
<i>Dulaglutide</i>	11,137,379	9,095,591	81.7%	233,152	2.1%	1,802,244	16.2%	6,392	0.1%
<i>Lixisenatide</i>	3,399	3,238	95.3%	46	1.4%	93	2.7%	22	0.6%
<i>Exenatide</i>	1,978,972	1,716,738	86.7%	25,163	1.3%	234,932	11.9%	2,139	0.1%
<i>Liraglutide</i>	5,900,954	4,733,870	80.2%	342,095	5.8%	819,256	13.9%	5,733	0.1%
<i>Tirzepatide</i>	226,735	214,019	94.4%	5,734	2.5%	6,815	3.0%	167	0.1%

**Table 2b. Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Total Number of Dispensings	Distribution of Days Supplied by Dispensing						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>All GLP1 Receptor Agonists</i>	24,751,873	1	28	28	30	1,182	37.5	21.6
<i>Semaglutide</i>	7,222,351	1	28	28	30	422	39.0	22.6
<i>Dulaglutide</i>	11,137,379	1	28	28	30	1,182	37.1	21.7
<i>Lixisenatide</i>	3,399	1	28	30	30	394	31.3	18.4
<i>Exenatide</i>	1,978,972	1	28	28	30	700	35.2	19.9
<i>Liraglutide</i>	5,900,954	1	30	30	30	942	38.3	21.8
<i>Tirzepatide</i>	226,735	1	26	28	28	174	26.5	13.1

Table 2c. Categorical Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		1-30 Days		31-60 Days		61-90 Days		91+ Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
<b>All GLP1 Receptor</b>									
<b>Agonists</b>	<b>24,751,873</b>	<b>19,918,563</b>	<b>100.0%</b>	<b>1,089,384</b>	<b>100.0%</b>	<b>3,721,705</b>	<b>100.0%</b>	<b>22,221</b>	<b>100.0%</b>
Female	13,953,373	11,371,449	57.1%	632,641	58.1%	1,937,297	52.1%	11,986	53.9%
Male	10,798,500	8,547,114	42.9%	456,743	41.9%	1,784,408	47.9%	10,235	46.1%
<b>Semaglutide</b>	<b>7,222,351</b>	<b>5,448,681</b>	<b>100.0%</b>	<b>542,748</b>	<b>100.0%</b>	<b>1,221,452</b>	<b>100.0%</b>	<b>9,470</b>	<b>100.0%</b>
Female	4,109,851	3,144,494	57.7%	318,576	58.7%	641,850	52.5%	4,931	52.1%
Male	3,112,500	2,304,187	42.3%	224,172	41.3%	579,602	47.5%	4,539	47.9%
<b>Dulaglutide</b>	<b>11,137,379</b>	<b>9,095,591</b>	<b>100.0%</b>	<b>233,152</b>	<b>100.0%</b>	<b>1,802,244</b>	<b>100.0%</b>	<b>6,392</b>	<b>100.0%</b>
Female	5,915,916	4,895,852	53.8%	122,783	52.7%	894,150	49.6%	3,131	49.0%
Male	5,221,463	4,199,739	46.2%	110,369	47.3%	908,094	50.4%	3,261	51.0%
<b>Lixisenatide</b>	<b>3,399</b>	<b>3,238</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>93</b>	<b>100.0%</b>	<b>22</b>	<b>100.0%</b>
Female	2,051	1,950	60.2%	35	76.1%	53	57.0%	*****	*****
Male	1,348	1,288	39.8%	11	23.9%	40	43.0%	*****	*****
<b>Exenatide</b>	<b>1,978,972</b>	<b>1,716,738</b>	<b>100.0%</b>	<b>25,163</b>	<b>100.0%</b>	<b>234,932</b>	<b>100.0%</b>	<b>2,139</b>	<b>100.0%</b>
Female	1,104,095	968,282	56.4%	14,170	56.3%	120,321	51.2%	1,322	61.8%
Male	874,877	748,456	43.6%	10,993	43.7%	114,611	48.8%	817	38.2%
<b>Liraglutide</b>	<b>5,900,954</b>	<b>4,733,870</b>	<b>100.0%</b>	<b>342,095</b>	<b>100.0%</b>	<b>819,256</b>	<b>100.0%</b>	<b>5,733</b>	<b>100.0%</b>
Female	3,610,562	2,942,285	62.2%	206,149	60.3%	458,820	56.0%	3,308	57.7%
Male	2,290,392	1,791,585	37.8%	135,946	39.7%	360,436	44.0%	2,425	42.3%
<b>Tirzepatide</b>	<b>226,735</b>	<b>214,019</b>	<b>100.0%</b>	<b>5,734</b>	<b>100.0%</b>	<b>6,815</b>	<b>100.0%</b>	<b>167</b>	<b>100.0%</b>
Female	148,530	141,045	65.9%	3,483	60.7%	3,909	57.4%	93	55.7%
Male	78,205	72,974	34.1%	2,251	39.3%	2,906	42.6%	74	44.3%

\*\*\*\*\*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 2d. Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Total Number of Dispensings	Distribution of Days Supplied by Dispensing						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor</b>								
<b>Agonists</b>	<b>24,751,873</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>1,182</b>	<b>37.5</b>	<b>21.6</b>
Female	13,953,373	1	28	28	30	1,182	36.8	21.1
Male	10,798,500	1	28	28	30	942	38.3	22.3
<b>Semaglutide</b>	<b>7,222,351</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>422</b>	<b>39.0</b>	<b>22.6</b>
Female	4,109,851	1	28	28	30	422	38.2	22.0
Male	3,112,500	1	28	28	42	393	40.0	23.3
<b>Dulaglutide</b>	<b>11,137,379</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>1,182</b>	<b>37.1</b>	<b>21.7</b>
Female	5,915,916	1	28	28	30	1,182	36.5	21.2
Male	5,221,463	1	28	28	30	614	37.9	22.2
<b>Lixisenatide</b>	<b>3,399</b>	<b>1</b>	<b>28</b>	<b>30</b>	<b>30</b>	<b>394</b>	<b>31.3</b>	<b>18.4</b>
Female	2,051	1	28	30	30	394	31.3	17.5
Male	1,348	1	28	30	30	394	31.3	19.7
<b>Exenatide</b>	<b>1,978,972</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>700</b>	<b>35.2</b>	<b>19.9</b>
Female	1,104,095	1	28	28	30	700	34.7	19.5
Male	874,877	1	28	28	30	480	35.8	20.3
<b>Liraglutide</b>	<b>5,900,954</b>	<b>1</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>942</b>	<b>38.3</b>	<b>21.8</b>
Female	3,610,562	1	30	30	30	930	37.6	21.1
Male	2,290,392	1	30	30	30	942	39.5	22.8
<b>Tirzepatide</b>	<b>226,735</b>	<b>1</b>	<b>26</b>	<b>28</b>	<b>28</b>	<b>174</b>	<b>26.5</b>	<b>13.1</b>
Female	148,530	1	26	28	28	170	26.3	12.5
Male	78,205	1	24	28	28	174	26.8	14.1

**Table 2e. Categorical Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		1-30 Days		31-60 Days		31-60 Days		61-90 Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
<b>All GLP1 Receptor</b>									
<b>Agonists</b>	<b>24,751,873</b>	<b>19,918,563</b>	<b>100.0%</b>	<b>1,089,384</b>	<b>100.0%</b>	<b>3,721,705</b>	<b>100.0%</b>	<b>22,221</b>	<b>100.0%</b>
18-21 years	61,773	54,981	0.3%	2,520	0.2%	4,176	0.1%	96	0.4%
22-44 years	3,319,430	2,883,855	14.5%	124,671	11.4%	308,002	8.3%	2,902	13.1%
45-64 years	11,419,864	9,475,600	47.6%	446,297	41.0%	1,488,008	40.0%	9,959	44.8%
65-74 years	7,411,625	5,549,568	27.9%	384,303	35.3%	1,471,124	39.5%	6,630	29.8%
≥ 75 years	2,539,181	1,954,559	9.8%	131,593	12.1%	450,395	12.1%	2,634	11.9%
<b>Semaglutide</b>	<b>7,222,351</b>	<b>5,448,681</b>	<b>100.0%</b>	<b>542,748</b>	<b>100.0%</b>	<b>1,221,452</b>	<b>100.0%</b>	<b>9,470</b>	<b>100.0%</b>
18-21 years	17,334	14,542	0.3%	1,124	0.2%	1,639	0.1%	29	0.3%
22-44 years	983,998	810,043	14.9%	61,163	11.3%	111,713	9.1%	1,079	11.4%
45-64 years	3,318,758	2,578,396	47.3%	222,059	40.9%	514,333	42.1%	3,970	41.9%
65-74 years	2,196,927	1,547,803	28.4%	191,160	35.2%	454,768	37.2%	3,196	33.7%
≥ 75 years	705,334	497,897	9.1%	67,242	12.4%	138,999	11.4%	1,196	12.6%
<b>Dulaglutide</b>	<b>11,137,379</b>	<b>9,095,591</b>	<b>100.0%</b>	<b>233,152</b>	<b>100.0%</b>	<b>1,802,244</b>	<b>100.0%</b>	<b>6,392</b>	<b>100.0%</b>
18-21 years	16,135	14,504	0.2%	362	0.2%	1,237	0.1%	32	0.5%
22-44 years	1,093,075	957,914	10.5%	17,990	7.7%	116,516	6.5%	655	10.2%
45-64 years	4,914,483	4,123,871	45.3%	92,006	39.5%	695,571	38.6%	3,035	47.5%
65-74 years	3,680,408	2,849,452	31.3%	89,040	38.2%	739,918	41.1%	1,998	31.3%
≥ 75 years	1,433,278	1,149,850	12.6%	33,754	14.5%	249,002	13.8%	672	10.5%
<b>Lixisenatide</b>	<b>3,399</b>	<b>3,238</b>	<b>100.0%</b>	<b>46</b>	<b>100.0%</b>	<b>93</b>	<b>100.0%</b>	<b>22</b>	<b>100.0%</b>
18-21 years	24	24	0.7%	0	0.0%	0	0.0%	0	0.0%
22-44 years	933	873	27.0%	*****	*****	*****	*****	*****	*****
45-64 years	2,358	2,266	70.0%	*****	*****	48	51.6%	*****	*****
65-74 years	*****	*****	*****	0	0.0%	*****	*****	*****	*****
≥ 75 years	*****	*****	*****	0	0.0%	*****	*****	0	0.0%

**Table 2e. Categorical Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Dispensings	Number of Dispensings by Days Supplied							
		1-30 Days		31-60 Days		31-60 Days		61-90 Days	
		Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings	Number of Dispensings	Percent of Total Dispensings
<b>Exenatide</b>	<b>1,978,972</b>	<b>1,716,738</b>	<b>100.0%</b>	<b>25,163</b>	<b>100.0%</b>	<b>234,932</b>	<b>100.0%</b>	<b>2,139</b>	<b>100.0%</b>
18-21 years	5,253	5,059	0.3%	*****	*****	118	0.1%	*****	*****
22-44 years	267,702	248,849	14.5%	3,141	12.5%	15,228	6.5%	484	22.6%
45-64 years	974,053	871,729	50.8%	11,878	47.2%	89,157	38.0%	1,289	60.3%
65-74 years	550,229	441,588	25.7%	7,537	30.0%	100,860	42.9%	244	11.4%
≥ 75 years	181,735	149,513	8.7%	*****	*****	29,569	12.6%	*****	*****
<b>Liraglutide</b>	<b>5,900,954</b>	<b>4,733,870</b>	<b>100.0%</b>	<b>342,095</b>	<b>100.0%</b>	<b>819,256</b>	<b>100.0%</b>	<b>5,733</b>	<b>100.0%</b>
18-21 years	21,506	19,446	0.4%	935	0.3%	1,094	0.1%	31	0.5%
22-44 years	966,898	857,065	18.1%	41,311	12.1%	67,845	8.3%	677	11.8%
45-64 years	2,840,859	2,387,424	50.4%	139,258	40.7%	311,913	38.1%	2,264	39.5%
65-74 years	1,584,878	1,122,327	23.7%	119,529	34.9%	341,216	41.6%	1,806	31.5%
≥ 75 years	486,813	347,608	7.3%	41,062	12.0%	97,188	11.9%	955	16.7%
<b>Tirzepatide</b>	<b>226,735</b>	<b>214,019</b>	<b>100.0%</b>	<b>5,734</b>	<b>100.0%</b>	<b>6,815</b>	<b>100.0%</b>	<b>167</b>	<b>100.0%</b>
18-21 years	788	761	0.4%	*****	*****	*****	*****	0	0.0%
22-44 years	48,667	46,714	21.8%	958	16.7%	*****	*****	*****	*****
45-64 years	121,580	114,625	53.6%	3,029	52.8%	3,843	56.4%	83	49.7%
65-74 years	45,035	42,036	19.6%	1,350	23.5%	1,603	23.5%	46	27.5%
≥ 75 years	10,665	9,883	4.6%	*****	*****	397	5.8%	*****	*****

\*\*\*\*\*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 2f. Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Dispensings	Distribution of Days Supplied by Dispensing						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>								
<b>Agonists</b>	<b>24,751,873</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>1,182</b>	<b>37.5</b>	<b>21.6</b>
18-21 years	61,773	1	28	29	30	450	32.8	16.6
22-44 years	3,319,430	1	28	28	30	756	34.0	18.2
45-64 years	11,419,864	1	28	28	30	1,182	36.2	20.5
65-74 years	7,411,625	1	28	28	33	869	40.5	23.7
≥ 75 years	2,539,181	1	28	28	30	755	38.9	23.2
<b>Semaglutide</b>	<b>7,222,351</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>422</b>	<b>39.0</b>	<b>22.6</b>
18-21 years	17,334	1	28	28	30	252	34.1	18.7
22-44 years	983,998	1	28	28	30	389	35.1	19.8
45-64 years	3,318,758	1	28	28	30	420	37.9	22.0
65-74 years	2,196,927	1	28	28	56	422	41.6	24.0
≥ 75 years	705,334	1	28	30	56	365	41.4	23.7
<b>Dulaglutide</b>	<b>11,137,379</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>1,182</b>	<b>37.1</b>	<b>21.7</b>
18-21 years	16,135	1	28	28	28	311	32.7	17.4
22-44 years	1,093,075	1	28	28	28	756	34.0	18.4
45-64 years	4,914,483	1	28	28	30	1,182	36.0	20.6
65-74 years	3,680,408	1	28	28	30	400	39.5	23.3
≥ 75 years	1,433,278	1	28	28	30	317	37.4	22.6
<b>Lixisenatide</b>	<b>3,399</b>	<b>1</b>	<b>28</b>	<b>30</b>	<b>30</b>	<b>394</b>	<b>31.3</b>	<b>18.4</b>
18-21 years	*****	28	28	30	30	30	29.1	1.0
22-44 years	933	1	28	30	30	253	32.0	15.6
45-64 years	2,358	1	28	30	30	394	31.0	19.4
65-74 years	74	2	28	29	30	120	31.7	20.8
≥ 75 years	*****	14	28	29	30	84	37.5	24.8

**Table 2f. Continuous Summary of Days Supplied per Dispensing for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Dispensings	Distribution of Days Supplied by Dispensing						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>Exenatide</b>	<b>1,978,972</b>	<b>1</b>	<b>28</b>	<b>28</b>	<b>30</b>	<b>700</b>	<b>35.2</b>	<b>19.9</b>
18-21 years	5,253	1	28	28	30	244	29.5	10.1
22-44 years	267,702	1	28	28	30	448	31.8	16.6
45-64 years	974,053	1	28	28	30	700	33.7	18.4
65-74 years	550,229	1	28	28	30	330	38.9	22.4
≥ 75 years	181,735	1	28	28	30	289	37.5	21.7
<b>Liraglutide</b>	<b>5,900,954</b>	<b>1</b>	<b>30</b>	<b>30</b>	<b>30</b>	<b>942</b>	<b>38.3</b>	<b>21.8</b>
18-21 years	21,506	1	30	30	30	450	32.8	15.2
22-44 years	966,898	1	30	30	30	535	33.9	16.6
45-64 years	2,840,859	1	30	30	30	942	36.4	19.9
65-74 years	1,584,878	1	30	30	50	869	43.5	25.3
≥ 75 years	486,813	1	30	30	45	755	42.2	25.2
<b>Tirzepatide</b>	<b>226,735</b>	<b>1</b>	<b>26</b>	<b>28</b>	<b>28</b>	<b>174</b>	<b>26.5</b>	<b>13.1</b>
18-21 years	788	1	28	28	28	84	25.8	9.7
22-44 years	48,667	1	27	28	28	168	26.0	11.6
45-64 years	121,580	1	26	28	28	170	26.6	13.3
65-74 years	45,035	1	24	28	28	174	26.7	13.9
≥ 75 years	10,665	1	23	28	28	139	26.8	14.1

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

**Table 3a. Categorical Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Number of Patients by Cumulative Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>All GLP1 Receptor</i>											
<i>Agonists</i>	2,558,183	115,831	4.5%	471,064	18.4%	1,011,253	39.5%	493,058	19.3%	466,977	18.3%
<i>Semaglutide</i>	1,124,563	74,636	6.6%	246,367	21.9%	496,215	44.1%	201,758	17.9%	105,587	9.4%
<i>Dulaglutide</i>	1,037,738	35,813	3.5%	180,596	17.4%	398,032	38.4%	210,720	20.3%	212,577	20.5%
<i>Lixisenatide</i>	725	29	4.0%	296	40.8%	295	40.7%	83	11.4%	22	3.0%
<i>Exenatide</i>	243,453	5,784	2.4%	62,868	25.8%	102,063	41.9%	39,674	16.3%	33,064	13.6%
<i>Liraglutide</i>	652,088	16,565	2.5%	134,225	20.6%	260,459	39.9%	120,632	18.5%	120,207	18.4%
<i>Tirzepatide</i>	89,319	20,058	22.5%	41,328	46.3%	27,933	31.3%	0	0.0%	0	0.0%

**Table 3b. Continuous Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Total Number of Patients	Distribution of Cumulative Treatment Episode Duration (Days)						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>All GLP1 Receptor</i>							
<i>Agonists</i>	2,558,183	1	102	239	565	2,791	415.9
<i>Semaglutide</i>	1,124,563	1	86	180	396	1,943	290.5
<i>Dulaglutide</i>	1,037,738	1	114	268	624	2,791	448.2
<i>Lixisenatide</i>	725	1	60	114	247	1,271	186.4
<i>Exenatide</i>	243,453	1	86	176	439	2,695	342.1
<i>Liraglutide</i>	652,088	1	101	235	564	2,782	416.6
<i>Tirzepatide</i>	89,319	1	34	60	107	357	76.4
							56.3

**Table 3c. Categorical Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Total Number of Patients	Number of Patients by Cumulative Treatment Episode Duration									
		1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days	
		Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>All GLP1 Receptor</b>											
<b>Agonists</b>	<b>2,558,183</b>	<b>115,831</b>	<b>100.0%</b>	<b>471,064</b>	<b>100.0%</b>	<b>1,011,253</b>	<b>100.0%</b>	<b>493,058</b>	<b>100.0%</b>	<b>466,977</b>	<b>100.0%</b>
Female	1,483,641	70,845	61.2%	283,035	60.1%	594,709	58.8%	280,987	57.0%	254,065	54.4%
Male	1,074,542	44,986	38.8%	188,029	39.9%	416,544	41.2%	212,071	43.0%	212,912	45.6%
<b>Semaglutide</b>	<b>1,124,563</b>	<b>74,636</b>	<b>100.0%</b>	<b>246,367</b>	<b>100.0%</b>	<b>496,215</b>	<b>100.0%</b>	<b>201,758</b>	<b>100.0%</b>	<b>105,587</b>	<b>100.0%</b>
Female	662,729	47,132	63.1%	150,694	61.2%	295,393	59.5%	114,517	56.8%	54,993	52.1%
Male	461,834	27,504	36.9%	95,673	38.8%	200,822	40.5%	87,241	43.2%	50,594	47.9%
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>35,813</b>	<b>100.0%</b>	<b>180,596</b>	<b>100.0%</b>	<b>398,032</b>	<b>100.0%</b>	<b>210,720</b>	<b>100.0%</b>	<b>212,577</b>	<b>100.0%</b>
Female	559,508	19,741	55.1%	100,454	55.6%	217,074	54.5%	112,556	53.4%	109,683	51.6%
Male	478,230	16,072	44.9%	80,142	44.4%	180,958	45.5%	98,164	46.6%	102,894	48.4%
<b>Lixisenatide</b>	<b>725</b>	<b>29</b>	<b>100.0%</b>	<b>296</b>	<b>100.0%</b>	<b>295</b>	<b>100.0%</b>	<b>83</b>	<b>100.0%</b>	<b>22</b>	<b>100.0%</b>
Female	456	*****	*****	189	63.9%	183	62.0%	51	61.4%	11	50.0%
Male	269	*****	*****	107	36.1%	112	38.0%	32	38.6%	11	50.0%
<b>Exenatide</b>	<b>243,453</b>	<b>5,784</b>	<b>100.0%</b>	<b>62,868</b>	<b>100.0%</b>	<b>102,063</b>	<b>100.0%</b>	<b>39,674</b>	<b>100.0%</b>	<b>33,064</b>	<b>100.0%</b>
Female	139,363	3,402	58.8%	37,298	59.3%	58,243	57.1%	22,513	56.7%	17,907	54.2%
Male	104,090	2,382	41.2%	25,570	40.7%	43,820	42.9%	17,161	43.3%	15,157	45.8%
<b>Liraglutide</b>	<b>652,088</b>	<b>16,565</b>	<b>100.0%</b>	<b>134,225</b>	<b>100.0%</b>	<b>260,459</b>	<b>100.0%</b>	<b>120,632</b>	<b>100.0%</b>	<b>120,207</b>	<b>100.0%</b>
Female	413,429	10,787	65.1%	88,261	65.8%	168,571	64.7%	75,332	62.4%	70,478	58.6%
Male	238,659	5,778	34.9%	45,964	34.2%	91,888	35.3%	45,300	37.6%	49,729	41.4%
<b>Tirzepatide</b>	<b>89,319</b>	<b>20,058</b>	<b>100.0%</b>	<b>41,328</b>	<b>100.0%</b>	<b>27,933</b>	<b>100.0%</b>	<b>0</b>	<b>NaN</b>	<b>0</b>	<b>NaN</b>
Female	57,289	12,410	61.9%	26,486	64.1%	18,393	65.8%	0	NaN	0	NaN
Male	32,030	7,648	38.1%	14,842	35.9%	9,540	34.2%	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 3d. Continuous Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

Total Number of Patients	Distribution of Cumulative Treatment Episode Duration (Days)						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>							
<b>Agonists</b>	<b>2,558,183</b>	<b>1</b>	<b>102</b>	<b>239</b>	<b>565</b>	<b>2,791</b>	<b>415.9</b>
Female	1,483,641	1	96	228	538	2,780	399.8
Male	1,074,542	1	112	257	604	2,791	438.2
<b>Semaglutide</b>	<b>1,124,563</b>	<b>1</b>	<b>86</b>	<b>180</b>	<b>396</b>	<b>1,943</b>	<b>290.5</b>
Female	662,729	1	79	171	373	1,907	276.2
Male	461,834	1	86	196	430	1,943	311.1
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>1</b>	<b>114</b>	<b>268</b>	<b>624</b>	<b>2,791</b>	<b>448.2</b>
Female	559,508	1	114	257	602	2,780	435.8
Male	478,230	1	114	282	648	2,791	462.6
<b>Lixisenatide</b>	<b>725</b>	<b>1</b>	<b>60</b>	<b>114</b>	<b>247</b>	<b>1,271</b>	<b>186.4</b>
Female	456	1	60	105	239	1,271	179.1
Male	269	5	60	116	262	1,075	198.7
<b>Exenatide</b>	<b>243,453</b>	<b>1</b>	<b>86</b>	<b>176</b>	<b>439</b>	<b>2,695</b>	<b>342.1</b>
Female	139,363	1	86	172	424	2,695	331.2
Male	104,090	1	88	184	457	2,663	356.7
<b>Liraglutide</b>	<b>652,088</b>	<b>1</b>	<b>101</b>	<b>235</b>	<b>564</b>	<b>2,782</b>	<b>416.6</b>
Female	413,429	1	95	220	530	2,782	397.2
Male	238,659	1	113	255	625	2,743	450.2
<b>Tirzepatide</b>	<b>89,319</b>	<b>1</b>	<b>34</b>	<b>60</b>	<b>107</b>	<b>357</b>	<b>76.4</b>
Female	57,289	1	35	61	110	357	77.5
Male	32,030	1	32	58	104	344	74.4

**Table 3e. Categorical Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Number of Patients by Cumulative Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>All GLP1 Receptor Agonists</b>											
<b>Agonists</b>	<b>2,558,183</b>	<b>115,831</b>	<b>100.0%</b>	<b>471,064</b>	<b>100.0%</b>	<b>1,011,253</b>	<b>100.0%</b>	<b>493,058</b>	<b>100.0%</b>	<b>466,977</b>	<b>100.0%</b>
18-21 years	10,009	609	0.5%	2,664	0.6%	4,618	0.5%	1,482	0.3%	636	0.1%
22-44 years	400,541	24,635	21.3%	86,122	18.3%	168,633	16.7%	71,947	14.6%	49,204	10.5%
45-64 years	1,128,355	55,376	47.8%	200,440	42.6%	436,242	43.1%	229,021	46.4%	207,276	44.4%
65-74 years	748,399	26,098	22.5%	128,266	27.2%	293,803	29.1%	141,090	28.6%	159,142	34.1%
≥ 75 years	270,879	9,113	7.9%	53,572	11.4%	107,957	10.7%	49,518	10.0%	50,719	10.9%
<b>Semaglutide</b>	<b>1,124,563</b>	<b>74,636</b>	<b>100.0%</b>	<b>246,367</b>	<b>100.0%</b>	<b>496,215</b>	<b>100.0%</b>	<b>201,758</b>	<b>100.0%</b>	<b>105,587</b>	<b>100.0%</b>
18-21 years	3,562	347	0.5%	983	0.4%	1,644	0.3%	466	0.2%	122	0.1%
22-44 years	170,058	16,229	21.7%	42,119	17.1%	75,553	15.2%	26,396	13.1%	9,761	9.2%
45-64 years	487,755	34,762	46.6%	102,465	41.6%	211,789	42.7%	91,786	45.5%	46,953	44.5%
65-74 years	342,981	17,381	23.3%	72,203	29.3%	153,243	30.9%	62,508	31.0%	37,646	35.7%
≥ 75 years	120,207	5,917	7.9%	28,597	11.6%	53,986	10.9%	20,602	10.2%	11,105	10.5%
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>35,813</b>	<b>100.0%</b>	<b>180,596</b>	<b>100.0%</b>	<b>398,032</b>	<b>100.0%</b>	<b>210,720</b>	<b>100.0%</b>	<b>212,577</b>	<b>100.0%</b>
18-21 years	2,243	90	0.3%	558	0.3%	1,017	0.3%	408	0.2%	170	0.1%
22-44 years	113,715	4,791	13.4%	22,125	12.3%	46,476	11.7%	23,099	11.0%	17,224	8.1%
45-64 years	441,026	16,690	46.6%	74,093	41.0%	165,185	41.5%	94,502	44.8%	90,556	42.6%
65-74 years	343,101	10,004	27.9%	57,873	32.0%	131,762	33.1%	66,494	31.6%	76,968	36.2%
≥ 75 years	137,653	4,238	11.8%	25,947	14.4%	53,592	13.5%	26,217	12.4%	27,659	13.0%
<b>Lixisenatide</b>	<b>725</b>	<b>29</b>	<b>100.0%</b>	<b>296</b>	<b>100.0%</b>	<b>295</b>	<b>100.0%</b>	<b>83</b>	<b>100.0%</b>	<b>22</b>	<b>100.0%</b>
18-21 years	*****	0	0.0%	*****	*****	*****	*****	0	0.0%	0	0.0%
22-44 years	192	*****	*****	78	26.4%	78	26.4%	22	26.5%	*****	*****
45-64 years	496	*****	*****	203	68.6%	199	67.5%	61	73.5%	*****	*****
65-74 years	24	*****	*****	*****	*****	*****	*****	0	0.0%	*****	*****
≥ 75 years	*****	0	0.0%	*****	*****	*****	*****	0	0.0%	0	0.0%

**Table 3e. Categorical Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Number of Patients by Cumulative Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>Exenatide</b>	<b>243,453</b>	<b>5,784</b>	<b>100.0%</b>	<b>62,868</b>	<b>100.0%</b>	<b>102,063</b>	<b>100.0%</b>	<b>39,674</b>	<b>100.0%</b>	<b>33,064</b>	<b>100.0%</b>
18-21 years	1,020	46	0.8%	362	0.6%	463	0.5%	114	0.3%	35	0.1%
22-44 years	38,252	1,130	19.5%	10,893	17.3%	16,932	16.6%	6,041	15.2%	3,256	9.8%
45-64 years	118,570	3,354	58.0%	30,125	47.9%	49,681	48.7%	20,456	51.6%	14,954	45.2%
65-74 years	64,531	945	16.3%	15,907	25.3%	26,567	26.0%	9,912	25.0%	11,200	33.9%
≥ 75 years	21,080	309	5.3%	5,581	8.9%	8,420	8.2%	3,151	7.9%	3,619	10.9%
<b>Liraglutide</b>	<b>652,088</b>	<b>16,565</b>	<b>100.0%</b>	<b>134,225</b>	<b>100.0%</b>	<b>260,459</b>	<b>100.0%</b>	<b>120,632</b>	<b>100.0%</b>	<b>120,207</b>	<b>100.0%</b>
18-21 years	4,012	164	1.0%	1,193	0.9%	1,940	0.7%	514	0.4%	201	0.2%
22-44 years	134,853	4,401	26.6%	33,428	24.9%	60,879	23.4%	22,469	18.6%	13,676	11.4%
45-64 years	308,248	8,743	52.8%	63,198	47.1%	122,752	47.1%	60,301	50.0%	53,254	44.3%
65-74 years	155,975	2,464	14.9%	26,871	20.0%	57,089	21.9%	28,740	23.8%	40,811	34.0%
≥ 75 years	49,000	793	4.8%	9,535	7.1%	17,799	6.8%	8,608	7.1%	12,265	10.2%
<b>Tirzepatide</b>	<b>89,319</b>	<b>20,058</b>	<b>100.0%</b>	<b>41,328</b>	<b>100.0%</b>	<b>27,933</b>	<b>100.0%</b>	<b>0</b>	<b>NaN</b>	<b>0</b>	<b>NaN</b>
18-21 years	296	48	0.2%	149	0.4%	99	0.4%	0	NaN	0	NaN
22-44 years	18,160	3,761	18.8%	8,412	20.4%	5,987	21.4%	0	NaN	0	NaN
45-64 years	46,770	10,384	51.8%	21,406	51.8%	14,980	53.6%	0	NaN	0	NaN
65-74 years	19,174	4,593	22.9%	8,943	21.6%	5,638	20.2%	0	NaN	0	NaN
≥ 75 years	4,919	1,272	6.3%	2,418	5.9%	1,229	4.4%	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 3f. Continuous Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of Cumulative Treatment Episode Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>	<b>2,558,183</b>	<b>1</b>	<b>102</b>	<b>239</b>	<b>565</b>	<b>2,791</b>	<b>415.9</b>	<b>454.2</b>
18-21 years	10,009	1	62	150	320	2,642	250.6	278.4
22-44 years	400,541	1	86	194	436	2,772	333.1	375.7
45-64 years	1,128,355	1	103	252	575	2,791	417.9	446.1
65-74 years	748,399	1	114	257	633	2,780	458.7	495.6
≥ 75 years	270,879	1	101	229	570	2,713	418.2	460.9
<b>Semaglutide</b>	<b>1,124,563</b>	<b>1</b>	<b>86</b>	<b>180</b>	<b>396</b>	<b>1,943</b>	<b>290.5</b>	<b>298.0</b>
18-21 years	3,562	1	60	127	274	1,671	204.8	212.0
22-44 years	170,058	1	60	148	323	1,827	240.2	254.9
45-64 years	487,755	1	86	189	409	1,917	296.9	301.1
65-74 years	342,981	1	89	189	424	1,943	309.2	312.5
≥ 75 years	120,207	1	86	171	385	1,779	285.0	293.1
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>1</b>	<b>114</b>	<b>268</b>	<b>624</b>	<b>2,791</b>	<b>448.2</b>	<b>473.3</b>
18-21 years	2,243	1	86	174	372	2,642	282.7	306.3
22-44 years	113,715	1	97	230	511	2,722	378.8	405.3
45-64 years	441,026	1	114	283	629	2,791	450.0	464.8
65-74 years	343,101	1	114	272	664	2,780	474.3	503.3
≥ 75 years	137,653	1	114	245	611	2,675	437.1	470.8
<b>Lixisenatide</b>	<b>725</b>	<b>1</b>	<b>60</b>	<b>114</b>	<b>247</b>	<b>1,271</b>	<b>186.4</b>	<b>197.2</b>
18-21 years	*****	60	91	138	204	334	160.8	98.6
22-44 years	192	3	60	115	257	1,257	197.6	216.5
45-64 years	496	1	60	114	258	1,271	186.5	192.3
65-74 years	24	5	58	90	129	868	129.5	170.7
≥ 75 years	*****	41	58	83	95	166	84.9	40.8

**Table 3f. Continuous Summary of Patients' Cumulative Exposure Duration for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of Cumulative Treatment Episode Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>Exenatide</b>	<b>243,453</b>	<b>1</b>	<b>86</b>	<b>176</b>	<b>439</b>	<b>2,695</b>	<b>342.1</b>	<b>399.8</b>
18-21 years	1,020	1	60	118	258	1,740	199.6	220.5
22-44 years	38,252	1	76	154	354	2,614	277.5	313.4
45-64 years	118,570	1	86	180	434	2,643	330.6	372.6
65-74 years	64,531	1	90	189	510	2,695	391.2	464.4
≥ 75 years	21,080	1	86	175	503	2,672	381.0	454.3
<b>Liraglutide</b>	<b>652,088</b>	<b>1</b>	<b>101</b>	<b>235</b>	<b>564</b>	<b>2,782</b>	<b>416.6</b>	<b>458.1</b>
18-21 years	4,012	1	60	143	285	2,076	228.3	243.3
22-44 years	134,853	1	87	180	390	2,667	303.5	337.1
45-64 years	308,248	1	99	236	547	2,764	400.4	429.4
65-74 years	155,975	1	120	300	765	2,685	524.9	546.4
≥ 75 years	49,000	1	120	273	732	2,782	499.9	530.0
<b>Tirzepatide</b>	<b>89,319</b>	<b>1</b>	<b>34</b>	<b>60</b>	<b>107</b>	<b>357</b>	<b>76.4</b>	<b>56.3</b>
18-21 years	296	1	45	68	111	296	81.0	54.7
22-44 years	18,160	1	36	62	113	357	79.5	58.0
45-64 years	46,770	1	34	60	111	351	78.0	58.4
65-74 years	19,174	1	32	58	101	352	71.8	50.6
≥ 75 years	4,919	1	30	58	90	331	67.3	48.0

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

**Table 4a. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Number of Patients by First Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<i>All GLP1 Receptor</i>											
Agonists	2,558,183	119,154	4.7%	775,734	30.3%	1,113,478	43.5%	333,083	13.0%	216,734	8.5%
Semaglutide	1,124,563	75,425	6.7%	362,785	32.3%	498,836	44.4%	133,204	11.8%	54,313	4.8%
Dulaglutide	1,037,738	37,096	3.6%	261,057	25.2%	445,446	42.9%	169,056	16.3%	125,083	12.1%
Lixisenatide	725	*****	*****	372	51.3%	259	35.7%	56	7.7%	*****	*****
Exenatide	243,453	6,051	2.5%	85,945	35.3%	106,934	43.9%	27,379	11.2%	17,144	7.0%
Liraglutide	652,088	17,432	2.7%	225,629	34.6%	285,964	43.9%	73,765	11.3%	49,298	7.6%
Tirzepatide	89,319	20,060	22.5%	43,010	48.2%	26,249	29.4%	0	0.0%	0	0.0%

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

**Table 4b. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Total Number of Patients	Distribution of First Treatment Episode Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>Receptor</i>								
<i>Agonists</i>	2,558,183	1	60	133	312	2,788	266.9	337.8
<i>Semaglutide</i>	1,124,563	1	60	120	258	1,933	212.0	239.8
<i>Dulaglutide</i>	1,037,738	1	86	171	412	2,788	326.1	386.7
<i>Lixisenatide</i>	725	1	60	85	166	1,157	146.2	155.7
<i>Exenatide</i>	243,453	1	60	120	268	2,695	240.1	309.8
<i>Liraglutide</i>	652,088	1	60	120	277	2,782	249.8	326.3
<i>Tirzepatide</i>	89,319	1	34	58	103	357	74.4	54.6

**Table 4c. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Number of Patients by First Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>All GLP1 Receptor Agonists</b>	<b>2,558,183</b>	<b>119,154</b>	<b>100.0%</b>	<b>775,734</b>	<b>100.0%</b>	<b>1,113,478</b>	<b>100.0%</b>	<b>333,083</b>	<b>100.0%</b>	<b>216,734</b>	<b>100.0%</b>
Female	1,483,641	72,873	61.2%	462,770	59.7%	649,830	58.4%	185,599	55.7%	112,569	51.9%
Male	1,074,542	46,281	38.8%	312,964	40.3%	463,648	41.6%	147,484	44.3%	104,165	48.1%
<b>Semaglutide</b>	<b>1,124,563</b>	<b>75,425</b>	<b>100.0%</b>	<b>362,785</b>	<b>100.0%</b>	<b>498,836</b>	<b>100.0%</b>	<b>133,204</b>	<b>100.0%</b>	<b>54,313</b>	<b>100.0%</b>
Female	662,729	47,609	63.1%	217,724	60.0%	294,572	59.1%	75,078	56.4%	27,746	51.1%
Male	461,834	27,816	36.9%	145,061	40.0%	204,264	40.9%	58,126	43.6%	26,567	48.9%
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>37,096</b>	<b>100.0%</b>	<b>261,057</b>	<b>100.0%</b>	<b>445,446</b>	<b>100.0%</b>	<b>169,056</b>	<b>100.0%</b>	<b>125,083</b>	<b>100.0%</b>
Female	559,508	20,486	55.2%	143,954	55.1%	242,509	54.4%	89,312	52.8%	63,247	50.6%
Male	478,230	16,610	44.8%	117,103	44.9%	202,937	45.6%	79,744	47.2%	61,836	49.4%
<b>Lixisenatide</b>	<b>725</b>	<b>29</b>	<b>100.0%</b>	<b>372</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>56</b>	<b>100.0%</b>	*****	*****
Female	456	*****	*****	231	62.1%	162	62.5%	35	62.5%	*****	*****
Male	269	*****	*****	141	37.9%	97	37.5%	21	37.5%	*****	*****
<b>Exenatide</b>	<b>243,453</b>	<b>6,051</b>	<b>100.0%</b>	<b>85,945</b>	<b>100.0%</b>	<b>106,934</b>	<b>100.0%</b>	<b>27,379</b>	<b>100.0%</b>	<b>17,144</b>	<b>100.0%</b>
Female	139,363	3,566	58.9%	50,729	59.0%	60,869	56.9%	15,258	55.7%	8,941	52.2%
Male	104,090	2,485	41.1%	35,216	41.0%	46,065	43.1%	12,121	44.3%	8,203	47.8%
<b>Liraglutide</b>	<b>652,088</b>	<b>17,432</b>	<b>100.0%</b>	<b>225,629</b>	<b>100.0%</b>	<b>285,964</b>	<b>100.0%</b>	<b>73,765</b>	<b>100.0%</b>	<b>49,298</b>	<b>100.0%</b>
Female	413,429	11,363	65.2%	146,935	65.1%	182,369	63.8%	45,204	61.3%	27,558	55.9%
Male	238,659	6,069	34.8%	78,694	34.9%	103,595	36.2%	28,561	38.7%	21,740	44.1%
<b>Tirzepatide</b>	<b>89,319</b>	<b>20,060</b>	<b>100.0%</b>	<b>43,010</b>	<b>100.0%</b>	<b>26,249</b>	<b>100.0%</b>	<b>0</b>	NaN	<b>0</b>	NaN
Female	57,289	12,411	61.9%	27,537	64.0%	17,341	66.1%	0	NaN	0	NaN
Male	32,030	7,649	38.1%	15,473	36.0%	8,908	33.9%	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 4d. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

Total Number of Patients	Distribution of First Treatment Episode Duration (Days)						
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>							
<b>Agonists</b>	<b>2,558,183</b>	<b>1</b>	<b>60</b>	<b>133</b>	<b>312</b>	<b>2,788</b>	<b>266.9</b>
Female	1,483,641	1	60	127	296	2,780	253.7
Male	1,074,542	1	61	142	339	2,788	285.2
<b>Semaglutide</b>	<b>1,124,563</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>258</b>	<b>1,933</b>	<b>212.0</b>
Female	662,729	1	60	117	247	1,890	202.8
Male	461,834	1	60	120	279	1,933	225.2
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>1</b>	<b>86</b>	<b>171</b>	<b>412</b>	<b>2,788</b>	<b>326.1</b>
Female	559,508	1	86	169	396	2,780	315.6
Male	478,230	1	86	177	433	2,788	338.5
<b>Lixisenatide</b>	<b>725</b>	<b>1</b>	<b>60</b>	<b>85</b>	<b>166</b>	<b>1,157</b>	<b>146.2</b>
Female	456	1	60	79	164	1,157	144.1
Male	269	5	60	86	172	985	149.7
<b>Exenatide</b>	<b>243,453</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>268</b>	<b>2,695</b>	<b>240.1</b>
Female	139,363	1	60	116	255	2,695	230.2
Male	104,090	1	60	120	283	2,649	253.4
<b>Liraglutide</b>	<b>652,088</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>277</b>	<b>2,782</b>	<b>249.8</b>
Female	413,429	1	60	120	263	2,782	236.9
Male	238,659	1	60	122	305	2,743	272.3
<b>Tirzepatide</b>	<b>89,319</b>	<b>1</b>	<b>34</b>	<b>58</b>	<b>103</b>	<b>357</b>	<b>74.4</b>
Female	57,289	1	35	59	105	357	54.7
Male	32,030	1	32	58	99	344	54.4

**Table 4e. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Number of Patients by First Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>All GLP1 Receptor Agonists</b>											
<b>Agonists</b>	<b>2,558,183</b>	<b>119,154</b>	<b>100.0%</b>	<b>775,734</b>	<b>100.0%</b>	<b>1,113,478</b>	<b>100.0%</b>	<b>333,083</b>	<b>100.0%</b>	<b>216,734</b>	<b>100.0%</b>
18-21 years	10,009	620	0.5%	4,069	0.5%	4,340	0.4%	765	0.2%	215	0.1%
22-44 years	400,541	25,413	21.3%	137,819	17.8%	175,359	15.7%	43,279	13.0%	18,671	8.6%
45-64 years	1,128,355	57,229	48.0%	336,944	43.4%	480,522	43.2%	158,181	47.5%	95,479	44.1%
65-74 years	748,399	26,634	22.4%	214,430	27.6%	334,751	30.1%	96,032	28.8%	76,552	35.3%
≥ 75 years	270,879	9,258	7.8%	82,472	10.6%	118,506	10.6%	34,826	10.5%	25,817	11.9%
<b>Semaglutide</b>	<b>1,124,563</b>	<b>75,425</b>	<b>100.0%</b>	<b>362,785</b>	<b>100.0%</b>	<b>498,836</b>	<b>100.0%</b>	<b>133,204</b>	<b>100.0%</b>	<b>54,313</b>	<b>100.0%</b>
18-21 years	3,562	349	0.5%	1,417	0.4%	1,507	0.3%	243	0.2%	46	0.1%
22-44 years	170,058	16,380	21.7%	59,415	16.4%	72,952	14.6%	16,726	12.6%	4,585	8.4%
45-64 years	487,755	35,183	46.6%	154,038	42.5%	212,647	42.6%	61,791	46.4%	24,096	44.4%
65-74 years	342,981	17,541	23.3%	107,190	29.5%	157,326	31.5%	41,086	30.8%	19,838	36.5%
≥ 75 years	120,207	5,972	7.9%	40,725	11.2%	54,404	10.9%	13,358	10.0%	5,748	10.6%
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>37,096</b>	<b>100.0%</b>	<b>261,057</b>	<b>100.0%</b>	<b>445,446</b>	<b>100.0%</b>	<b>169,056</b>	<b>100.0%</b>	<b>125,083</b>	<b>100.0%</b>
18-21 years	2,243	95	0.3%	769	0.3%	1,046	0.2%	257	0.2%	76	0.1%
22-44 years	113,715	5,017	13.5%	32,250	12.4%	50,891	11.4%	16,923	10.0%	8,634	6.9%
45-64 years	441,026	17,426	47.0%	108,249	41.5%	186,011	41.8%	77,041	45.6%	52,299	41.8%
65-74 years	343,101	10,255	27.6%	83,855	32.1%	148,645	33.4%	53,504	31.6%	46,842	37.4%
≥ 75 years	137,653	4,303	11.6%	35,934	13.8%	58,853	13.2%	21,331	12.6%	17,232	13.8%
<b>Lixisenatide</b>	<b>725</b>	<b>29</b>	<b>100.0%</b>	<b>372</b>	<b>100.0%</b>	<b>259</b>	<b>100.0%</b>	<b>56</b>	<b>100.0%</b>	*****	*****
18-21 years	*****	0	0.0%	*****	*****	*****	*****	0	0.0%	0	0.0%
22-44 years	192	*****	*****	103	27.7%	68	26.3%	11	19.6%	*****	*****
45-64 years	496	*****	*****	252	67.7%	175	67.6%	45	80.4%	*****	*****
65-74 years	24	*****	*****	*****	*****	*****	*****	0	0.0%	*****	*****
≥ 75 years	*****	0	0.0%	*****	*****	*****	*****	0	0.0%	0	0.0%

**Table 4e. Categorical Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Number of Patients by First Treatment Episode Duration										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients	Number of Patients	Percent of Total Patients
<b>Exenatide</b>	<b>243,453</b>	<b>6,051</b>	<b>100.0%</b>	<b>85,945</b>	<b>100.0%</b>	<b>106,934</b>	<b>100.0%</b>	<b>27,379</b>	<b>100.0%</b>	<b>17,144</b>	<b>100.0%</b>
18-21 years	1,020	47	0.8%	489	0.6%	399	0.4%	66	0.2%	19	0.1%
22-44 years	38,252	1,201	19.8%	15,123	17.6%	16,788	15.7%	3,637	13.3%	1,503	8.8%
45-64 years	118,570	3,495	57.8%	41,628	48.4%	51,580	48.2%	14,271	52.1%	7,596	44.3%
65-74 years	64,531	987	16.3%	21,380	24.9%	29,054	27.2%	7,112	26.0%	5,998	35.0%
≥ 75 years	21,080	321	5.3%	7,325	8.5%	9,113	8.5%	2,293	8.4%	2,028	11.8%
<b>Liraglutide</b>	<b>652,088</b>	<b>17,432</b>	<b>100.0%</b>	<b>225,629</b>	<b>100.0%</b>	<b>285,964</b>	<b>100.0%</b>	<b>73,765</b>	<b>100.0%</b>	<b>49,298</b>	<b>100.0%</b>
18-21 years	4,012	167	1.0%	1,779	0.8%	1,747	0.6%	252	0.3%	67	0.1%
22-44 years	134,853	4,636	26.6%	52,546	23.3%	60,357	21.1%	12,323	16.7%	4,991	10.1%
45-64 years	308,248	9,239	53.0%	105,599	46.8%	132,420	46.3%	38,278	51.9%	22,712	46.1%
65-74 years	155,975	2,567	14.7%	49,171	21.8%	70,083	24.5%	17,518	23.7%	16,636	33.7%
≥ 75 years	49,000	823	4.7%	16,534	7.3%	21,357	7.5%	5,394	7.3%	4,892	9.9%
<b>Tirzepatide</b>	<b>89,319</b>	<b>20,060</b>	<b>100.0%</b>	<b>43,010</b>	<b>100.0%</b>	<b>26,249</b>	<b>100.0%</b>	<b>0</b>	<b>NaN</b>	<b>0</b>	<b>NaN</b>
18-21 years	296	48	0.2%	156	0.4%	92	0.4%	0	NaN	0	NaN
22-44 years	18,160	3,762	18.8%	8,754	20.4%	5,644	21.5%	0	NaN	0	NaN
45-64 years	46,770	10,385	51.8%	22,338	51.9%	14,047	53.5%	0	NaN	0	NaN
65-74 years	19,174	4,593	22.9%	9,261	21.5%	5,320	20.3%	0	NaN	0	NaN
≥ 75 years	4,919	1,272	6.3%	2,501	5.8%	1,146	4.4%	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 4f. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of First Treatment Episode Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>								
<b>Agonists</b>	<b>2,558,183</b>	<b>1</b>	<b>60</b>	<b>133</b>	<b>312</b>	<b>2,788</b>	<b>266.9</b>	<b>337.8</b>
18-21 years	10,009	1	60	98	196	2,642	163.7	188.0
22-44 years	400,541	1	60	118	247	2,772	209.7	259.8
45-64 years	1,128,355	1	60	142	329	2,788	269.4	331.4
65-74 years	748,399	1	72	142	331	2,780	291.0	374.2
≥ 75 years	270,879	1	63	130	320	2,713	278.7	354.1
<b>Semaglutide</b>	<b>1,124,563</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>258</b>	<b>1,933</b>	<b>212.0</b>	<b>239.8</b>
18-21 years	3,562	1	58	91	185	1,459	147.5	156.0
22-44 years	170,058	1	58	110	222	1,807	177.9	199.2
45-64 years	487,755	1	60	120	274	1,917	216.7	242.3
65-74 years	342,981	1	60	120	266	1,933	224.1	254.3
≥ 75 years	120,207	1	60	117	241	1,779	208.2	236.8
<b>Dulaglutide</b>	<b>1,037,738</b>	<b>1</b>	<b>86</b>	<b>171</b>	<b>412</b>	<b>2,788</b>	<b>326.1</b>	<b>386.7</b>
18-21 years	2,243	1	58	120	244	2,642	201.1	226.4
22-44 years	113,715	1	67	149	332	2,690	266.5	312.8
45-64 years	441,026	1	86	182	422	2,788	327.0	376.0
65-74 years	343,101	1	86	170	436	2,780	345.5	417.5
≥ 75 years	137,653	1	86	162	411	2,675	326.6	392.5
<b>Lixisenatide</b>	<b>725</b>	<b>1</b>	<b>60</b>	<b>85</b>	<b>166</b>	<b>1,157</b>	<b>146.2</b>	<b>155.7</b>
18-21 years	*****	60	60	124	204	334	150.8	106.3
22-44 years	192	3	58	80	171	1,109	146.1	160.9
45-64 years	496	1	60	85	174	1,157	148.2	154.6
65-74 years	24	5	58	90	125	868	125.8	169.6
≥ 75 years	*****	41	50	60	91	95	68.3	21.2

**Table 4f. Continuous Summary of First Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of First Treatment Episode Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>Exenatide</b>	<b>243,453</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>268</b>	<b>2,695</b>	<b>240.1</b>	<b>309.8</b>
18-21 years	1,020	1	58	88	172	1,682	151.6	177.2
22-44 years	38,252	1	60	114	217	2,614	193.9	236.3
45-64 years	118,570	1	60	120	276	2,643	234.5	288.6
65-74 years	64,531	1	60	120	288	2,695	270.1	362.1
≥ 75 years	21,080	1	60	120	284	2,622	268.1	357.8
<b>Liraglutide</b>	<b>652,088</b>	<b>1</b>	<b>60</b>	<b>120</b>	<b>277</b>	<b>2,782</b>	<b>249.8</b>	<b>326.3</b>
18-21 years	4,012	1	60	94	180	2,076	152.5	166.8
22-44 years	134,853	1	60	115	218	2,667	192.6	234.2
45-64 years	308,248	1	60	122	295	2,764	249.8	313.0
65-74 years	155,975	1	60	120	311	2,673	292.8	392.8
≥ 75 years	49,000	1	60	120	300	2,782	278.8	373.7
<b>Tirzepatide</b>	<b>89,319</b>	<b>1</b>	<b>34</b>	<b>58</b>	<b>103</b>	<b>357</b>	<b>74.4</b>	<b>54.6</b>
18-21 years	296	1	45	64	108	296	78.5	52.9
22-44 years	18,160	1	36	60	108	357	77.5	56.3
45-64 years	46,770	1	34	58	105	351	75.8	56.5
65-74 years	19,174	1	32	58	97	352	70.2	49.3
≥ 75 years	4,919	1	30	58	88	331	65.9	47.0

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

**Table 5a. Categorical Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Total Number of Episodes	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	
<i>All GLP1 Receptor</i>											
Agonists	1,944,169	91,312	4.7%	690,292	35.5%	901,430	46.4%	181,694	9.3%	79,441	4.1%
<i>Semaglutide</i>	524,541	38,664	7.4%	186,261	35.5%	243,884	46.5%	43,384	8.3%	12,348	2.4%
<i>Dulaglutide</i>	579,774	24,209	4.2%	180,524	31.1%	281,014	48.5%	64,484	11.1%	29,543	5.1%
<i>Lixisenatide</i>	201	*****	*****	99	49.3%	82	40.8%	*****	*****	*****	*****
<i>Exenatide</i>	141,536	3,944	2.8%	55,920	39.5%	66,625	47.1%	10,951	7.7%	4,096	2.9%
<i>Liraglutide</i>	595,589	16,414	2.8%	239,448	40.2%	272,019	45.7%	47,065	7.9%	20,643	3.5%
<i>Tirzepatide</i>	3,628	1,541	42.5%	1,599	44.1%	488	13.5%	0	0.0%	0	0.0%

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

**Table 5b. Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

Total Number of Episodes	Distribution of Treatment Episode Durations Excluding First Treatment Episode (Days)							
	Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation	
<i>All GLP1 Receptor</i>								
Agonists	1,944,169	1	60	114	219	2,642	196.0	237.9
<i>Semaglutide</i>	524,541	1	58	114	201	1,847	168.4	183.5
<i>Dulaglutide</i>	579,774	1	59	117	255	2,664	218.4	258.3
<i>Lixisenatide</i>	201	2	60	90	190	1,017	145.1	142.7
<i>Exenatide</i>	141,536	1	58	114	198	2,612	175.5	208.1
<i>Liraglutide</i>	595,589	1	60	115	210	2,571	182.6	224.5
<i>Tirzepatide</i>	3,628	1	18	41	63	264	48.4	40.5

**Table 5c. Categorical Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Episodes	Percent of Number of Episodes	Total Episodes	Percent of Number of Episodes	Total Episodes	Percent of Number of Episodes	Total Episodes	Percent of Number of Episodes	Total Episodes	Percent of Total Episodes	
<b>All GLP1 Receptor Agonists</b>	<b>1,944,169</b>	<b>91,312</b>	<b>100.0%</b>	<b>690,292</b>	<b>100.0%</b>	<b>901,430</b>	<b>100.0%</b>	<b>181,694</b>	<b>100.0%</b>	<b>79,441</b>	<b>100.0%</b>
Female	1,138,617	54,827	60.0%	414,446	60.0%	524,299	58.2%	102,403	56.4%	42,642	53.7%
Male	805,552	36,485	40.0%	275,846	40.0%	377,131	41.8%	79,291	43.6%	36,799	46.3%
<b>Semaglutide</b>	<b>524,541</b>	<b>38,664</b>	<b>100.0%</b>	<b>186,261</b>	<b>100.0%</b>	<b>243,884</b>	<b>100.0%</b>	<b>43,384</b>	<b>100.0%</b>	<b>12,348</b>	<b>100.0%</b>
Female	298,450	23,189	60.0%	108,450	58.2%	137,236	56.3%	23,384	53.9%	6,191	50.1%
Male	226,091	15,475	40.0%	77,811	41.8%	106,648	43.7%	20,000	46.1%	6,157	49.9%
<b>Dulaglutide</b>	<b>579,774</b>	<b>24,209</b>	<b>100.0%</b>	<b>180,524</b>	<b>100.0%</b>	<b>281,014</b>	<b>100.0%</b>	<b>64,484</b>	<b>100.0%</b>	<b>29,543</b>	<b>100.0%</b>
Female	316,022	13,246	54.7%	100,293	55.6%	153,414	54.6%	34,104	52.9%	14,965	50.7%
Male	263,752	10,963	45.3%	80,231	44.4%	127,600	45.4%	30,380	47.1%	14,578	49.3%
<b>Lixisenatide</b>	<b>201</b>	*****	*****	<b>99</b>	<b>100.0%</b>	<b>82</b>	<b>100.0%</b>	<b>14</b>	<b>100.0%</b>	*****	*****
Female	115	*****	*****	54	54.5%	49	59.8%	*****	*****	*****	*****
Male	86	*****	*****	45	45.5%	33	40.2%	*****	*****	*****	*****
<b>Exenatide</b>	<b>141,536</b>	<b>3,944</b>	<b>100.0%</b>	<b>55,920</b>	<b>100.0%</b>	<b>66,625</b>	<b>100.0%</b>	<b>10,951</b>	<b>100.0%</b>	<b>4,096</b>	<b>100.0%</b>
Female	82,217	2,399	60.8%	32,957	58.9%	38,496	57.8%	6,217	56.8%	2,148	52.4%
Male	59,319	1,545	39.2%	22,963	41.1%	28,129	42.2%	4,734	43.2%	1,948	47.6%
<b>Liraglutide</b>	<b>595,589</b>	<b>16,414</b>	<b>100.0%</b>	<b>239,448</b>	<b>100.0%</b>	<b>272,019</b>	<b>100.0%</b>	<b>47,065</b>	<b>100.0%</b>	<b>20,643</b>	<b>100.0%</b>
Female	374,625	10,668	65.0%	154,480	64.5%	169,434	62.3%	28,172	59.9%	11,871	57.5%
Male	220,964	5,746	35.0%	84,968	35.5%	102,585	37.7%	18,893	40.1%	8,772	42.5%
<b>Tirzepatide</b>	<b>3,628</b>	<b>1,541</b>	<b>100.0%</b>	<b>1,599</b>	<b>100.0%</b>	<b>488</b>	<b>100.0%</b>	<b>0</b>	<b>NaN</b>	<b>0</b>	<b>NaN</b>
Female	2,276	965	62.6%	1,010	63.2%	301	61.7%	0	NaN	0	NaN
Male	1,352	576	37.4%	589	36.8%	187	38.3%	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 5d. Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Total Number of Episodes	Distribution of Treatment Episode Durations Excluding First Treatment Episode (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>								
<b>Agonists</b>	<b>1,944,169</b>	<b>1</b>	<b>60</b>	<b>114</b>	<b>219</b>	<b>2,642</b>	<b>196.0</b>	<b>237.9</b>
Female	1,138,617	1	60	114	213	2,639	190.4	230.3
Male	805,552	1	60	114	228	2,642	204.0	247.9
<b>Semaglutide</b>	<b>524,541</b>	<b>1</b>	<b>58</b>	<b>114</b>	<b>201</b>	<b>1,847</b>	<b>168.4</b>	<b>183.5</b>
Female	298,450	1	58	111	198	1,847	163.0	176.7
Male	226,091	1	58	114	209	1,799	175.5	191.9
<b>Dulaglutide</b>	<b>579,774</b>	<b>1</b>	<b>59</b>	<b>117</b>	<b>255</b>	<b>2,664</b>	<b>218.4</b>	<b>258.3</b>
Female	316,022	1	58	115	247	2,603	212.9	250.4
Male	263,752	1	60	120	265	2,664	224.9	267.3
<b>Lixisenatide</b>	<b>201</b>	<b>2</b>	<b>60</b>	<b>90</b>	<b>190</b>	<b>1,017</b>	<b>145.1</b>	<b>142.7</b>
Female	115	2	60	91	177	682	138.8	126.5
Male	86	11	60	80	208	1,017	153.5	162.4
<b>Exenatide</b>	<b>141,536</b>	<b>1</b>	<b>58</b>	<b>114</b>	<b>198</b>	<b>2,612</b>	<b>175.5</b>	<b>208.1</b>
Female	82,217	1	58	114	198	2,612	171.3	200.9
Male	59,319	1	58	114	203	2,468	181.3	217.4
<b>Liraglutide</b>	<b>595,589</b>	<b>1</b>	<b>60</b>	<b>115</b>	<b>210</b>	<b>2,571</b>	<b>182.6</b>	<b>224.5</b>
Female	374,625	1	60	109	199	2,529	176.9	216.6
Male	220,964	1	60	120	210	2,571	192.2	236.8
<b>Tirzepatide</b>	<b>3,628</b>	<b>1</b>	<b>18</b>	<b>41</b>	<b>63</b>	<b>264</b>	<b>48.4</b>	<b>40.5</b>
Female	2,276	1	17	41	62	264	48.0	39.9
Male	1,352	1	19	40	64	246	49.2	41.6

Table 5e. Categorical Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group

	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
<b>All GLP1 Receptor Agonists</b>											
<b>Agonists</b>	<b>1,944,169</b>	<b>91,312</b>	<b>100.0%</b>	<b>690,292</b>	<b>100.0%</b>	<b>901,430</b>	<b>100.0%</b>	<b>181,694</b>	<b>100.0%</b>	<b>79,441</b>	<b>100.0%</b>
18-21 years	6,429	384	0.4%	3,080	0.4%	2,564	0.3%	329	0.2%	72	0.1%
22-44 years	299,201	16,492	18.1%	123,087	17.8%	129,932	14.4%	22,449	12.4%	7,241	9.1%
45-64 years	849,458	43,447	47.6%	301,492	43.7%	385,587	42.8%	85,043	46.8%	33,889	42.7%
65-74 years	604,439	23,801	26.1%	200,278	29.0%	294,262	32.6%	56,539	31.1%	29,559	37.2%
≥ 75 years	184,642	7,188	7.9%	62,355	9.0%	89,085	9.9%	17,334	9.5%	8,680	10.9%
<b>Semaglutide</b>	<b>524,541</b>	<b>38,664</b>	<b>100.0%</b>	<b>186,261</b>	<b>100.0%</b>	<b>243,884</b>	<b>100.0%</b>	<b>43,384</b>	<b>100.0%</b>	<b>12,348</b>	<b>100.0%</b>
18-21 years	1,580	131	0.3%	681	0.4%	682	0.3%	*****	*****	*****	*****
22-44 years	72,026	5,955	15.4%	28,776	15.4%	31,600	13.0%	*****	*****	*****	*****
45-64 years	227,483	17,322	44.8%	80,150	43.0%	104,398	42.8%	20,050	46.2%	5,563	45.1%
65-74 years	168,299	11,597	30.0%	57,424	30.8%	80,649	33.1%	14,087	32.5%	4,542	36.8%
≥ 75 years	55,153	3,659	9.5%	19,230	10.3%	26,555	10.9%	4,461	10.3%	1,248	10.1%
<b>Dulaglutide</b>	<b>579,774</b>	<b>24,209</b>	<b>100.0%</b>	<b>180,524</b>	<b>100.0%</b>	<b>281,014</b>	<b>100.0%</b>	<b>64,484</b>	<b>100.0%</b>	<b>29,543</b>	<b>100.0%</b>
18-21 years	1,185	60	0.2%	519	0.3%	508	0.2%	73	0.1%	25	0.1%
22-44 years	70,201	3,383	14.0%	25,784	14.3%	32,690	11.6%	6,286	9.7%	2,058	7.0%
45-64 years	248,728	11,302	46.7%	77,625	43.0%	118,283	42.1%	29,329	45.5%	12,189	41.3%
65-74 years	192,509	6,905	28.5%	56,347	31.2%	96,543	34.4%	21,321	33.1%	11,393	38.6%
≥ 75 years	67,151	2,559	10.6%	20,249	11.2%	32,990	11.7%	7,475	11.6%	3,878	13.1%
<b>Lixisenatide</b>	<b>201</b>	<b>*****</b>	<b>*****</b>	<b>99</b>	<b>100.0%</b>	<b>82</b>	<b>100.0%</b>	<b>*****</b>	<b>*****</b>	<b>*****</b>	<b>*****</b>
18-21 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%	0	0.0%
22-44 years	67	*****	*****	*****	*****	26	31.7%	*****	*****	*****	*****
45-64 years	129	*****	*****	62	62.6%	56	68.3%	*****	*****	*****	*****
65-74 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%	0	0.0%

**Table 5e. Categorical Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Number of Treatment Episodes by Duration (Excluding First Treatment Episode)										
	1-30 Days		31-90 Days		91-365 Days		366-730 Days		731+ Days		
	Total Number of Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes
≥ 75 years	*****	*****	*****	*****	*****	0	0.0%	0	0.0%	0	0.0%
<b>Exenatide</b>	<b>141,536</b>	<b>3,944</b>	<b>100.0%</b>	<b>55,920</b>	<b>100.0%</b>	<b>66,625</b>	<b>100.0%</b>	<b>10,951</b>	<b>100.0%</b>	<b>4,096</b>	<b>100.0%</b>
18-21 years	463	*****	*****	282	0.5%	152	0.2%	*****	*****	*****	*****
22-44 years	22,851	872	22.1%	10,884	19.5%	9,553	14.3%	1,248	11.4%	294	7.2%
45-64 years	67,308	2,185	55.4%	27,429	49.1%	30,843	46.3%	5,214	47.6%	1,637	40.0%
65-74 years	39,231	655	16.6%	13,339	23.9%	20,168	30.3%	3,433	31.3%	1,636	39.9%
≥ 75 years	11,683	*****	*****	3,986	7.1%	5,909	8.9%	*****	*****	*****	*****
<b>Liraglutide</b>	<b>595,589</b>	<b>16,414</b>	<b>100.0%</b>	<b>239,448</b>	<b>100.0%</b>	<b>272,019</b>	<b>100.0%</b>	<b>47,065</b>	<b>100.0%</b>	<b>20,643</b>	<b>100.0%</b>
18-21 years	2,475	109	0.7%	1,345	0.6%	905	0.3%	99	0.2%	17	0.1%
22-44 years	101,728	3,673	22.4%	48,325	20.2%	42,160	15.5%	5,879	12.5%	1,691	8.2%
45-64 years	257,969	8,639	52.6%	104,553	43.7%	115,121	42.3%	21,580	45.9%	8,076	39.1%
65-74 years	179,701	3,072	18.7%	65,382	27.3%	88,000	32.4%	14,875	31.6%	8,372	40.6%
≥ 75 years	53,716	921	5.6%	19,843	8.3%	25,833	9.5%	4,632	9.8%	2,487	12.0%
<b>Tirzepatide</b>	<b>3,628</b>	<b>1,541</b>	<b>100.0%</b>	<b>1,599</b>	<b>100.0%</b>	<b>488</b>	<b>100.0%</b>	<b>0</b>	<b>NaN</b>	<b>0</b>	<b>NaN</b>
18-21 years	15	*****	*****	*****	*****	*****	*****	0	NaN	0	NaN
22-44 years	743	296	19.2%	351	22.0%	96	19.7%	0	NaN	0	NaN
45-64 years	1,968	776	50.4%	884	55.3%	308	63.1%	0	NaN	0	NaN
65-74 years	727	372	24.1%	285	17.8%	70	14.3%	0	NaN	0	NaN
≥ 75 years	175	*****	*****	*****	*****	*****	*****	0	NaN	0	NaN

\*\*\*\*\*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.

NaN: Not a Number

**Table 5f. Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Episodes	Distribution of Treatment Episode Durations Excluding First Treatment Episode (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor</b>								
<b>Agonists</b>	<b>1,944,169</b>	<b>1</b>	<b>60</b>	<b>114</b>	<b>219</b>	<b>2,642</b>	<b>196.0</b>	<b>237.9</b>
18-21 years	6,429	1	59	88	153	1,728	135.4	147.0
22-44 years	299,201	1	60	100	193	2,639	165.2	194.4
45-64 years	849,458	1	60	114	227	2,642	197.2	234.7
65-74 years	604,439	1	60	119	224	2,616	207.7	256.7
≥ 75 years	184,642	1	60	116	223	2,612	204.6	250.2
<b>Semaglutide</b>	<b>524,541</b>	<b>1</b>	<b>58</b>	<b>114</b>	<b>201</b>	<b>1,847</b>	<b>168.4</b>	<b>183.5</b>
18-21 years	1,580	1	58	90	152	1,114	129.3	125.1
22-44 years	72,026	1	58	95	177	1,769	147.0	156.4
45-64 years	227,483	1	58	114	209	1,847	171.9	186.9
65-74 years	168,299	1	58	114	203	1,737	173.5	190.6
≥ 75 years	55,153	1	58	114	198	1,701	167.4	179.3
<b>Dulaglutide</b>	<b>579,774</b>	<b>1</b>	<b>59</b>	<b>117</b>	<b>255</b>	<b>2,664</b>	<b>218.4</b>	<b>258.3</b>
18-21 years	1,185	1	58	93	177	1,580	154.3	172.3
22-44 years	70,201	1	58	114	212	2,664	182.0	210.5
45-64 years	248,728	1	58	119	265	2,642	218.1	251.8
65-74 years	192,509	1	60	120	261	2,603	229.6	276.4
≥ 75 years	67,151	1	60	119	261	2,531	226.5	271.3
<b>Lixisenatide</b>	<b>201</b>	<b>2</b>	<b>60</b>	<b>90</b>	<b>190</b>	<b>1,017</b>	<b>145.1</b>	<b>142.7</b>
18-21 years	*****	*****	*****	*****	*****	*****	*****	*****
22-44 years	*****	4	58	90	173	1,017	147.6	160.1
45-64 years	129	2	60	90	204	682	147.3	135.1
65-74 years	*****	*****	*****	*****	*****	*****	*****	*****
≥ 75 years	*****	*****	*****	*****	*****	*****	*****	*****

**Table 5f. Continuous Summary of Second and Subsequent Treatment Episodes for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Episodes	Distribution of Treatment Episode Durations Excluding First Treatment Episode (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>Exenatide</b>	<b>141,536</b>	<b>1</b>	<b>58</b>	<b>114</b>	<b>198</b>	<b>2,612</b>	<b>175.5</b>	<b>208.1</b>
18-21 years	463	3	58	60	118	998	105.9	100.4
22-44 years	22,851	1	58	90	156	2,066	140.0	152.3
45-64 years	67,308	1	58	111	198	2,477	169.3	193.2
65-74 years	39,231	1	60	114	212	2,567	199.3	241.8
≥ 75 years	11,683	1	60	114	220	2,612	203.5	248.4
<b>Liraglutide</b>	<b>595,589</b>	<b>1</b>	<b>60</b>	<b>115</b>	<b>210</b>	<b>2,571</b>	<b>182.6</b>	<b>224.5</b>
18-21 years	2,475	1	60	63	135	1,452	122.8	127.1
22-44 years	101,728	1	60	90	162	2,428	147.1	168.7
45-64 years	257,969	1	60	110	210	2,516	180.0	215.3
65-74 years	179,701	1	60	120	212	2,549	201.4	253.0
≥ 75 years	53,716	1	60	120	213	2,571	201.7	251.2
<b>Tirzepatide</b>	<b>3,628</b>	<b>1</b>	<b>18</b>	<b>41</b>	<b>63</b>	<b>264</b>	<b>48.4</b>	<b>40.5</b>
18-21 years	15	3	16	54	64	135	50.1	36.1
22-44 years	743	1	19	43	61	241	49.0	39.9
45-64 years	1,968	1	20	44	67	264	51.7	43.0
65-74 years	727	1	14	30	58	181	41.5	34.5
≥ 75 years	175	1	13	29	54	177	37.9	31.7

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

**Table 6a. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>All GLP1 Receptor Agonists</i>	1,944,169	1	13	39	117	2,650	122.0	232.4
<i>Semaglutide</i>	524,541	1	11	31	82	1,841	77.5	132.2
<i>Dulaglutide</i>	579,774	1	12	35	102	2,565	106.1	204.0
<i>Lixisenatide</i>	201	1	10	26	70	695	64.3	103.1
<i>Exenatide</i>	141,536	1	12	37	100	2,499	95.0	168.4
<i>Liraglutide</i>	595,589	1	13	36	96	2,542	91.0	162.6
<i>Tirzepatide</i>	3,628	1	5	13	30	254	21.9	24.4

**Table 6b. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>	<b>1,944,169</b>	<b>1</b>	<b>13</b>	<b>39</b>	<b>117</b>	<b>2,650</b>	<b>122.0</b>	<b>232.4</b>
Female	1,138,617	1	13	40	119	2,650	124.5	236.4
Male	805,552	1	13	38	113	2,611	118.5	226.6
<b>Semaglutide</b>	<b>524,541</b>	<b>1</b>	<b>11</b>	<b>31</b>	<b>82</b>	<b>1,841</b>	<b>77.5</b>	<b>132.2</b>
Female	298,450	1	11	31	83	1,718	78.5	134.3
Male	226,091	1	11	31	80	1,841	76.1	129.4
<b>Dulaglutide</b>	<b>579,774</b>	<b>1</b>	<b>12</b>	<b>35</b>	<b>102</b>	<b>2,565</b>	<b>106.1</b>	<b>204.0</b>
Female	316,022	1	12	36	103	2,565	107.4	205.5
Male	263,752	1	12	35	100	2,494	104.4	202.3
<b>Lixisenatide</b>	<b>201</b>	<b>1</b>	<b>10</b>	<b>26</b>	<b>70</b>	<b>695</b>	<b>64.3</b>	<b>103.1</b>
Female	115	1	10	26	62	682	62.0	103.5
Male	86	2	11	30	91	695	67.5	103.1
<b>Exenatide</b>	<b>141,536</b>	<b>1</b>	<b>12</b>	<b>37</b>	<b>100</b>	<b>2,499</b>	<b>95.0</b>	<b>168.4</b>
Female	82,217	1	13	37	100	2,499	96.3	171.6
Male	59,319	1	12	37	100	2,371	93.3	163.9
<b>Liraglutide</b>	<b>595,589</b>	<b>1</b>	<b>13</b>	<b>36</b>	<b>96</b>	<b>2,542</b>	<b>91.0</b>	<b>162.6</b>
Female	374,625	1	13	36	97	2,483	93.6	168.5
Male	220,964	1	12	35	92	2,542	86.6	152.1
<b>Tirzepatide</b>	<b>3,628</b>	<b>1</b>	<b>5</b>	<b>13</b>	<b>30</b>	<b>254</b>	<b>21.9</b>	<b>24.4</b>
Female	2,276	1	5	13	30	254	21.8	23.9
Male	1,352	1	5	13	31	161	22.1	25.2

**Table 6c. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations (Days)							Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean		
<b>All GLP1 Receptor Agonists</b>									
<b>Agonists</b>	<b>1,944,169</b>	<b>1</b>	<b>13</b>	<b>39</b>	<b>117</b>	<b>2,650</b>	<b>122.0</b>	<b>232.4</b>	
18-21 years	6,429	1	15	40	113	2,066	115.1	208.7	
22-44 years	299,201	1	14	41	124	2,624	130.8	246.0	
45-64 years	849,458	1	13	38	114	2,650	121.9	234.2	
65-74 years	604,439	1	14	40	121	2,513	122.5	231.2	
≥ 75 years	184,642	1	13	37	105	2,500	106.9	203.5	
<b>Semaglutide</b>	<b>524,541</b>	<b>1</b>	<b>11</b>	<b>31</b>	<b>82</b>	<b>1,841</b>	<b>77.5</b>	<b>132.2</b>	
18-21 years	1,580	1	12	31	76	1,235	70.0	116.2	
22-44 years	72,026	1	11	31	83	1,630	78.6	134.4	
45-64 years	227,483	1	11	31	80	1,841	77.6	134.8	
65-74 years	168,299	1	11	32	84	1,674	78.2	131.4	
≥ 75 years	55,153	1	11	31	80	1,445	73.3	120.9	
<b>Dulaglutide</b>	<b>579,774</b>	<b>1</b>	<b>12</b>	<b>35</b>	<b>102</b>	<b>2,565</b>	<b>106.1</b>	<b>204.0</b>	
18-21 years	1,185	1	13	37	97	1,823	98.3	186.1	
22-44 years	70,201	1	12	37	104	2,456	108.0	203.7	
45-64 years	248,728	1	12	34	98	2,565	105.4	204.9	
65-74 years	192,509	1	12	37	108	2,479	109.2	208.1	
≥ 75 years	67,151	1	12	33	96	2,412	97.9	188.7	
<b>Lixisenatide</b>	<b>201</b>	<b>1</b>	<b>10</b>	<b>26</b>	<b>70</b>	<b>695</b>	<b>64.3</b>	<b>103.1</b>	
18-21 years	*****	*****	*****	*****	*****	*****	*****	*****	
22-44 years	*****	1	9	40	109	345	67.9	72.7	
45-64 years	129	1	11	24	55	695	64.1	117.4	
65-74 years	*****	*****	*****	*****	*****	*****	*****	*****	
≥ 75 years	*****	*****	*****	*****	*****	*****	*****	*****	

**Table 6c. Continuous Summary of All Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Gaps	Distribution of Treatment Episode Gap Durations (Days)							Standard Deviation
		Minimum	Q1	Median	Q3	Maximum	Mean		
<b>Exenatide</b>	<b>141,536</b>	<b>1</b>	<b>12</b>	<b>37</b>	<b>100</b>	<b>2,499</b>	<b>95.0</b>	<b>168.4</b>	
18-21 years	463	1	15	38	103	1,296	100.8	171.7	
22-44 years	22,851	1	13	38	103	2,347	102.3	183.0	
45-64 years	67,308	1	12	35	96	2,499	93.6	167.1	
65-74 years	39,231	1	13	38	104	2,263	95.5	167.4	
≥ 75 years	11,683	1	12	36	95	2,396	87.2	147.1	
<b>Liraglutide</b>	<b>595,589</b>	<b>1</b>	<b>13</b>	<b>36</b>	<b>96</b>	<b>2,542</b>	<b>91.0</b>	<b>162.6</b>	
18-21 years	2,475	1	14	37	103	1,795	96.9	162.1	
22-44 years	101,728	1	13	38	105	2,542	104.2	188.9	
45-64 years	257,969	1	12	34	92	2,483	91.0	166.7	
65-74 years	179,701	1	13	36	98	2,518	87.1	147.6	
≥ 75 years	53,716	1	12	34	87	2,131	78.3	132.0	
<b>Tirzepatide</b>	<b>3,628</b>	<b>1</b>	<b>5</b>	<b>13</b>	<b>30</b>	<b>254</b>	<b>21.9</b>	<b>24.4</b>	
18-21 years	15	1	3	9	15	52	13.5	15.7	
22-44 years	743	1	5	12	28	180	21.8	25.2	
45-64 years	1,968	1	5	14	31	254	22.6	25.2	
65-74 years	727	1	5	13	29	152	20.1	21.0	
≥ 75 years	175	1	6	16	34	131	24.2	24.8	

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

**Table 7a. Continuous Summary of First Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Total Number of Patients	Distribution of First Treatment Episode Gap Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<i>All GLP1 Receptor</i>								
<i>Agonists</i>	938,934	1	13	41	139	2,650	145.6	273.3
<i>Semaglutide</i>	317,123	1	11	31	86	1,841	83.7	145.6
<i>Dulaglutide</i>	307,438	1	12	37	117	2,565	124.1	236.9
<i>Lixisenatide</i>	141	1	10	24	73	682	66.6	105.6
<i>Exenatide</i>	72,523	1	12	38	110	2,499	108.7	196.3
<i>Liraglutide</i>	264,588	1	12	36	104	2,542	103.2	190.1
<i>Tirzepatide</i>	3,511	1	5	13	30	254	22.0	24.6

**Table 7b. Continuous Summary of First Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Sex**

	Total Number of Patients	Distribution of First Treatment Episode Gap Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>	<b>938,934</b>	<b>1</b>	<b>13</b>	<b>41</b>	<b>139</b>	<b>2,650</b>	<b>145.6</b>	<b>273.3</b>
Female	546,538	1	13	42	141	2,650	148.5	277.7
Male	392,396	1	13	41	135	2,611	141.7	266.9
<b>Semaglutide</b>	<b>317,123</b>	<b>1</b>	<b>11</b>	<b>31</b>	<b>86</b>	<b>1,841</b>	<b>83.7</b>	<b>145.6</b>
Female	181,938	1	11	31	88	1,718	84.6	147.6
Male	135,185	1	11	31	85	1,841	82.4	143.0
<b>Dulaglutide</b>	<b>307,438</b>	<b>1</b>	<b>12</b>	<b>37</b>	<b>117</b>	<b>2,565</b>	<b>124.1</b>	<b>236.9</b>
Female	166,547	1	12	38	120	2,565	125.9	238.5
Male	140,891	1	12	36	114	2,494	121.8	235.0
<b>Lixisenatide</b>	<b>141</b>	<b>1</b>	<b>10</b>	<b>24</b>	<b>73</b>	<b>682</b>	<b>66.6</b>	<b>105.6</b>
Female	84	1	10	24	82	682	71.1	117.9
Male	57	2	10	24	73	415	60.0	85.0
<b>Exenatide</b>	<b>72,523</b>	<b>1</b>	<b>12</b>	<b>38</b>	<b>110</b>	<b>2,499</b>	<b>108.7</b>	<b>196.3</b>
Female	41,938	1	12	38	110	2,499	110.8	200.9
Male	30,585	1	12	38	110	2,371	105.7	189.6
<b>Liraglutide</b>	<b>264,588</b>	<b>1</b>	<b>12</b>	<b>36</b>	<b>104</b>	<b>2,542</b>	<b>103.2</b>	<b>190.1</b>
Female	167,227	1	12	36	106	2,483	105.9	196.4
Male	97,361	1	12	35	102	2,542	98.6	178.6
<b>Tirzepatide</b>	<b>3,511</b>	<b>1</b>	<b>5</b>	<b>13</b>	<b>30</b>	<b>254</b>	<b>22.0</b>	<b>24.6</b>
Female	2,210	1	5	14	30	254	21.9	24.0
Male	1,301	1	5	13	31	161	22.3	25.5

**Table 7c. Continuous Summary of First Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of First Treatment Episode Gap Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>All GLP1 Receptor Agonists</b>	<b>938,934</b>	<b>1</b>	<b>13</b>	<b>41</b>	<b>139</b>	<b>2,650</b>	<b>145.6</b>	<b>273.3</b>
18-21 years	3,478	1	13	38	114	2,066	123.8	232.3
22-44 years	147,397	1	13	42	142	2,624	150.8	281.8
45-64 years	417,892	1	13	40	135	2,650	144.6	273.2
65-74 years	279,813	1	14	44	148	2,513	150.3	278.4
≥ 75 years	90,354	1	13	40	125	2,500	128.5	242.2
<b>Semaglutide</b>	<b>317,123</b>	<b>1</b>	<b>11</b>	<b>31</b>	<b>86</b>	<b>1,841</b>	<b>83.7</b>	<b>145.6</b>
18-21 years	1,000	1	11	29	76	1,235	72.6	123.2
22-44 years	44,593	1	11	30	86	1,630	83.2	145.7
45-64 years	138,490	1	11	30	84	1,841	83.5	147.9
65-74 years	99,877	1	11	32	89	1,674	85.4	146.3
≥ 75 years	33,163	1	11	32	86	1,423	80.1	134.1
<b>Dulaglutide</b>	<b>307,438</b>	<b>1</b>	<b>12</b>	<b>37</b>	<b>117</b>	<b>2,565</b>	<b>124.1</b>	<b>236.9</b>
18-21 years	660	1	12	36	102	1,823	109.8	216.4
22-44 years	36,458	1	12	38	118	2,456	124.8	233.9
45-64 years	132,731	1	12	36	114	2,565	123.8	237.3
65-74 years	100,700	1	12	39	124	2,479	128.3	243.7
≥ 75 years	36,889	1	12	35	108	2,412	112.9	219.3
<b>Lixisenatide</b>	<b>141</b>	<b>1</b>	<b>10</b>	<b>24</b>	<b>73</b>	<b>682</b>	<b>66.6</b>	<b>105.6</b>
18-21 years	*****	*****	*****	*****	*****	*****	*****	*****
22-44 years	*****	1	9	40	116	345	71.2	77.6
45-64 years	93	1	11	22	55	682	66.3	118.2
65-74 years	*****	*****	*****	*****	*****	*****	*****	*****
≥ 75 years	*****	*****	*****	*****	*****	*****	*****	*****

**Table 7c. Continuous Summary of First Treatment Episode Gaps for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023, by Age Group**

	Total Number of Patients	Distribution of First Treatment Episode Gap Duration (Days)						
		Minimum	Q1	Median	Q3	Maximum	Mean	Standard Deviation
<b>Exenatide</b>	<b>72,523</b>	1	12	38	110	2,499	108.7	196.3
18-21 years	286	1	15	40	103	1,296	107.5	184.4
22-44 years	12,022	1	13	39	111	2,201	114.9	209.6
45-64 years	35,171	1	12	36	107	2,499	107.3	195.2
65-74 years	19,160	1	13	40	118	2,263	110.5	197.3
≥ 75 years	5,884	1	12	38	106	2,396	98.2	169.3
<b>Liraglutide</b>	<b>264,588</b>	<b>1</b>	<b>12</b>	<b>36</b>	<b>104</b>	<b>2,542</b>	<b>103.2</b>	<b>190.1</b>
18-21 years	1,342	1	12	34	94	1,795	94.6	168.7
22-44 years	51,013	1	12	37	111	2,542	114.1	212.2
45-64 years	120,985	1	12	34	99	2,483	102.3	192.9
65-74 years	70,221	1	13	38	111	2,518	101.0	176.5
≥ 75 years	21,027	1	12	35	97	2,131	90.1	158.3
<b>Tirzepatide</b>	<b>3,511</b>	<b>1</b>	<b>5</b>	<b>13</b>	<b>30</b>	<b>254</b>	<b>22.0</b>	<b>24.6</b>
18-21 years	14	1	4	10	15	52	14.3	16.0
22-44 years	719	1	5	13	27	180	22.0	25.5
45-64 years	1,898	1	5	14	31	254	22.6	25.4
65-74 years	707	1	5	13	29	152	20.2	21.2
≥ 75 years	173	1	6	16	34	131	24.2	24.9

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

Table 8. Summary of Reasons Treatment Episodes Ended for Exposures of Interest in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023<sup>1</sup>

	Censoring Reason												
	End of exposure episode <sup>2</sup>		Occurrence of request-defined censoring criteria <sup>3</sup>		Evidence of death <sup>4</sup>		Evidence of death <sup>4</sup>		Disenrollment <sup>5</sup>		End of data partner data <sup>6</sup>		
Total Number of Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	Number of Episodes	Percent of Total Episodes	
<i>All GLP1 Receptor</i>													
Agonists	4,502,352	2,932,731	65.1%	0	0.0%	45,771	1.0%	1,530,932	34.0%	0	0.0%	0	0.0%
Semaglutide	1,649,104	942,133	57.1%	0	0.0%	9,904	0.6%	700,105	42.5%	0	0.0%	0	0.0%
Dulaglutide	1,617,512	1,025,064	63.4%	0	0.0%	24,265	1.5%	570,956	35.3%	0	0.0%	0	0.0%
Lixisenatide	926	713	77.0%	0	0.0%	*****	*****	*****	*****	0	0.0%	0	0.0%
Exenatide	384,989	313,107	81.3%	0	0.0%	3,390	0.9%	68,962	17.9%	0	0.0%	0	0.0%
Liraglutide	1,247,677	998,762	80.0%	0	0.0%	11,195	0.9%	239,234	19.2%	0	0.0%	0	0.0%
Tirzepatide	92,947	12,658	13.6%	0	0.0%	56	0.1%	80,467	86.6%	0	0.0%	0	0.0%

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

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

<sup>3</sup>Represents episodes censored due to occurrence of additional user-defined criteria using drug, procedure, diagnosis, and/or laboratory codes.

<sup>4</sup>Represents episodes censored due to evidence of death. Death data source and completeness varies by Data Partner.

<sup>5</sup>Represents episodes censored due to disenrollment from health plan. Data Partners often artificially assign a "disenrollment" date equal to data end date for members still enrolled on that date. Therefore, a patient may have dual reasons for censoring as "disenrollment" and "end of data" on the same day - this can be interpreted as right-censoring in most cases.

<sup>6</sup>Represents episodes censored due to Data Partner data end date. This end date represents the last day of the most recent year-month in which all of a Data Partner's data

\*\*\*\*\*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 9. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	All GLP1 Receptor Agonists		Semaglutide		Dulaglutide	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting enrollment and demographic requirements</b>						
Enrolled at any point during the query period	357,612,801	N/A	357,612,801	N/A	357,612,801	N/A
Had required coverage type (medical and/or drug coverage)	265,601,735	92,011,066	265,601,735	92,011,066	265,601,735	92,011,066
Enrolled during specified age range	212,985,127	52,616,608	212,985,127	52,616,608	212,985,127	52,616,608
Had requestable medical charts	212,985,127	0	212,985,127	0	212,985,127	0
Met demographic requirements (sex, race, and Hispanic origin)	212,883,368	101,759	212,883,368	101,759	212,883,368	101,759
<b>Members with a valid index event</b>						
Had any cohort-defining claim during the query period	3,788,735	209,094,633	1,444,383	211,438,985	1,469,821	211,413,547
Claim recorded during specified age range	3,785,645	3,090	1,444,009	374	1,469,327	494
Episode defining index claim recorded during the query period	3,615,625	170,020	1,443,853	156	1,459,707	9,620
Met exposure incidence criteria	3,615,625	0	1,443,853	0	1,459,707	0
<b>Members with required pre-index history</b>						
enrollment	2,558,183	1,057,442	1,124,563	319,290	1,037,738	421,969
Met inclusion and exclusion criteria	2,558,183	0	1,124,563	0	1,037,738	0
<b>Members with required post-index follow-up</b>						
enrollment	2,558,183	0	1,124,563	0	1,037,738	0
<b>Final cohort</b>						
Number of members	2,558,183	N/A	1,124,563	N/A	1,037,738	N/A
Number of episodes	2,558,183	N/A	1,124,563	N/A	1,037,738	N/A

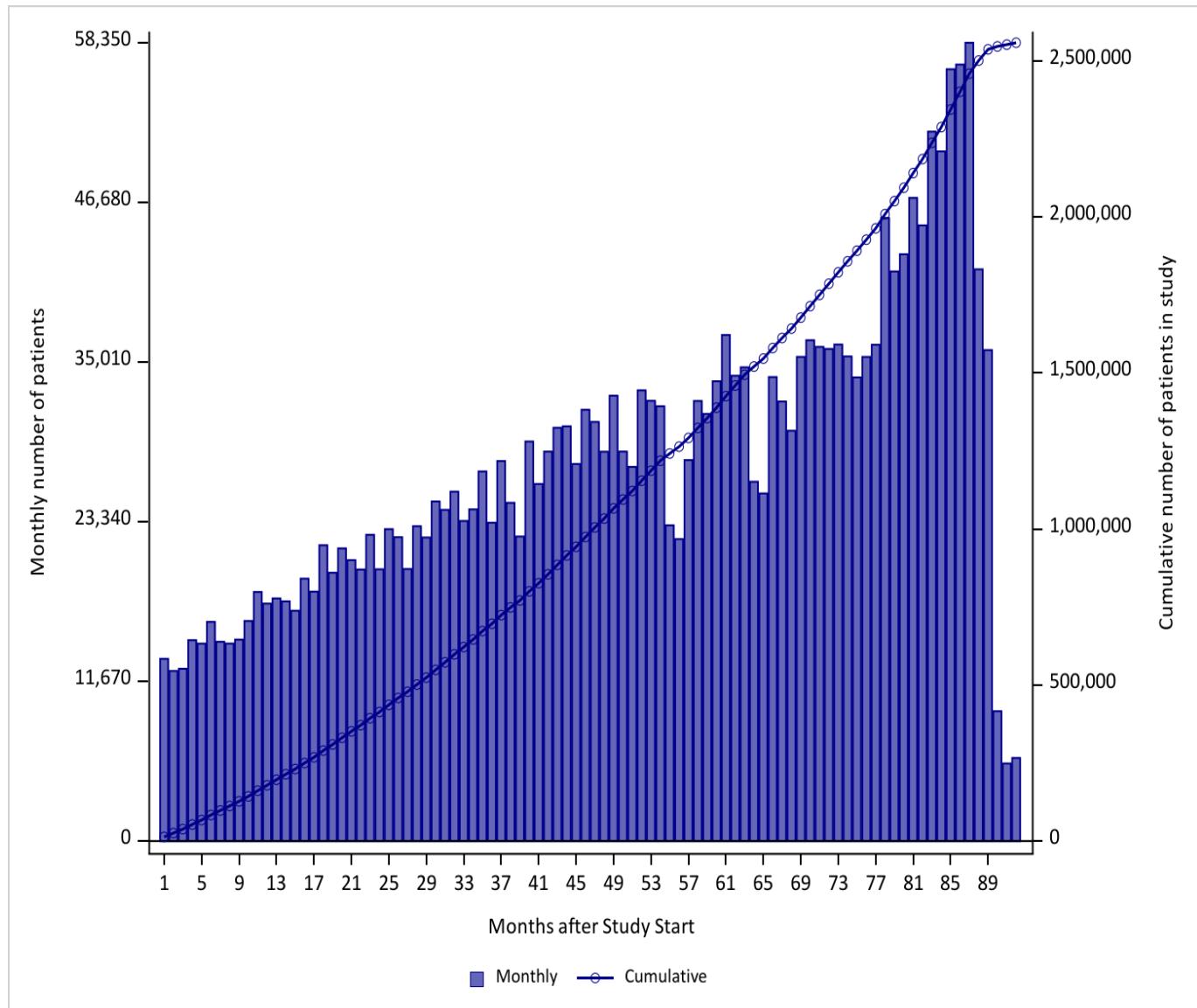
**Table 9. Summary of Patient Level Cohort Attrition in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

	Lixisenatide		Exenatide		Liraglutide		Tirzepatide	
	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded	Remaining	Excluded
<b>Members meeting enrollment and demographic requirements</b>								
Enrolled at any point during the query period	357,612,801	N/A	357,612,801	N/A	357,612,801	N/A	357,612,801	N/A
Had required coverage type (medical and/or drug coverage)	265,601,735	92,011,066	265,601,735	92,011,066	265,601,735	92,011,066	265,601,735	92,011,066
Enrolled during specified age range	212,985,127	52,616,608	212,985,127	52,616,608	212,985,127	52,616,608	212,985,127	52,616,608
Had requestable medical charts	212,985,127	0	212,985,127	0	212,985,127	0	212,985,127	0
Met demographic requirements (sex, race, and Hispanic origin)	212,883,368	101,759	212,883,368	101,759	212,883,368	101,759	212,883,368	101,759
<b>Members with a valid index event</b>								
Had any cohort-defining claim during the query period	*****	*****	392,614	212,490,754	1,080,148	211,803,220	103,127	212,780,241
Claim recorded during specified age range	*****	*****	392,244	370	1,077,874	2,274	103,115	12
Episode defining index claim recorded during the query period	*****	*****	339,983	52,261	950,889	126,985	103,115	0
Met exposure incidence criteria	*****	*****	339,983	0	950,889	0	103,115	0
<b>Members with required pre-index history</b>								
enrollment	725	139	243,453	96,530	652,088	298,801	89,319	13,796
Met inclusion and exclusion criteria	725	0	243,453	0	652,088	0	89,319	0
<b>Members with required post-index follow-up</b>								
enrollment	725	0	243,453	0	652,088	0	89,319	0
<b>Final cohort</b>								
Number of members	725	N/A	243,453	N/A	652,088	N/A	89,319	N/A
Number of episodes	725	N/A	243,453	N/A	652,088	N/A	89,319	N/A

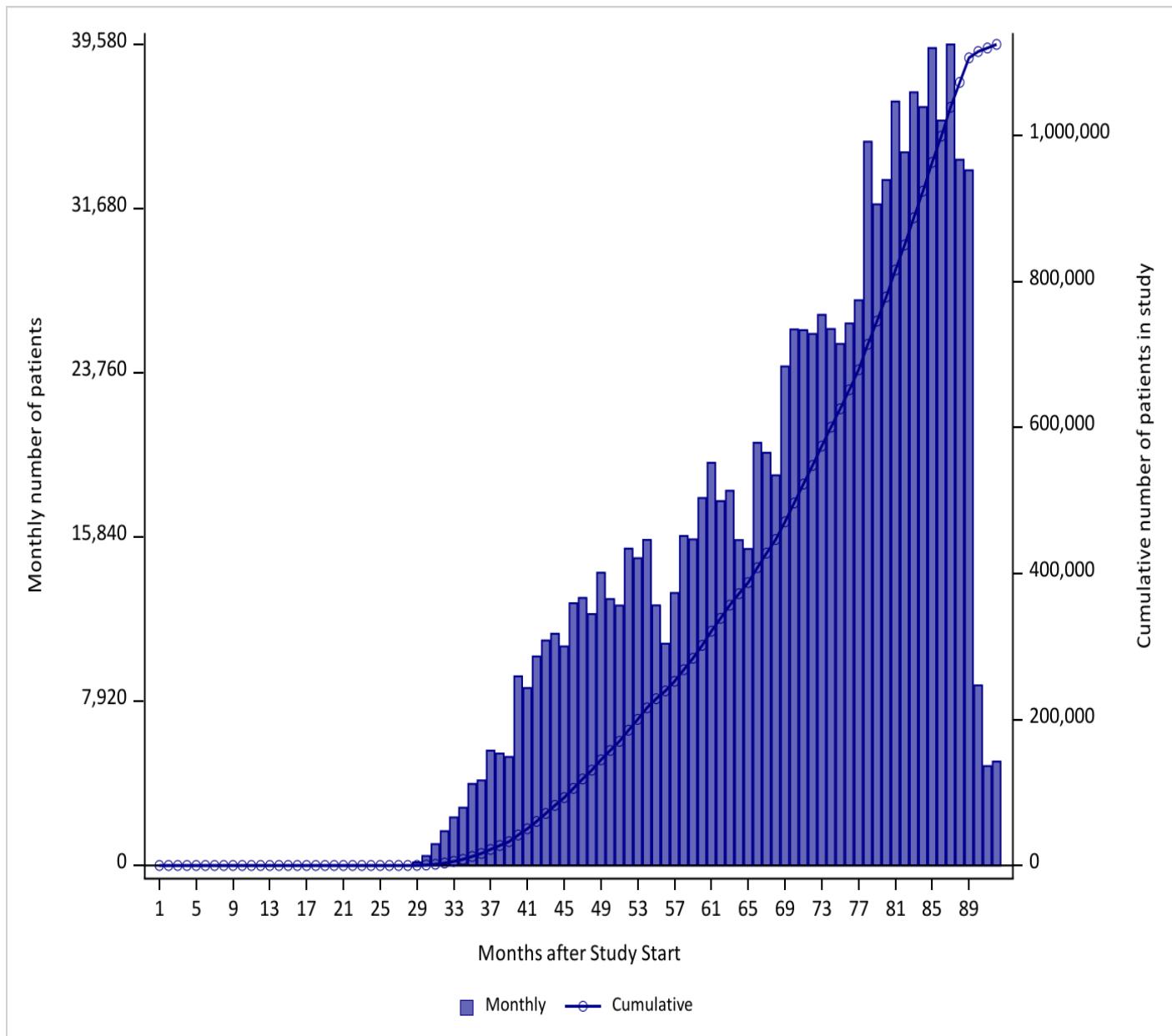
\*\*\*\*\*Data are not presented in these cells due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

N/A: Not Applicable

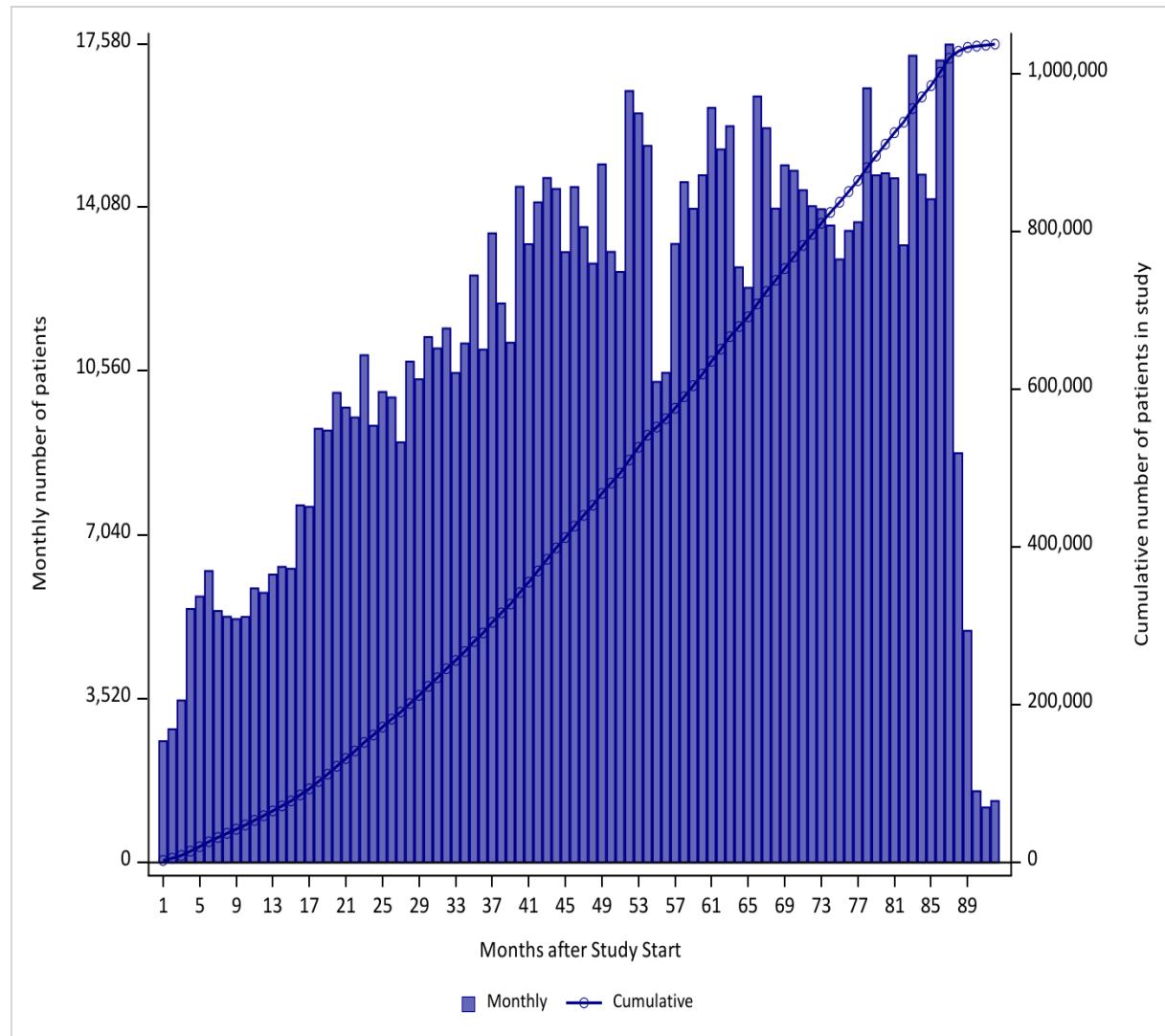
**Figure 1a. Patient Entry into Study by Month for All GLP1 Receptor Agonists in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**



**Figure 1b. Patient Entry into Study by Month for Semaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**



**Figure 1c. Patient Entry into Study by Month for Dulaglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

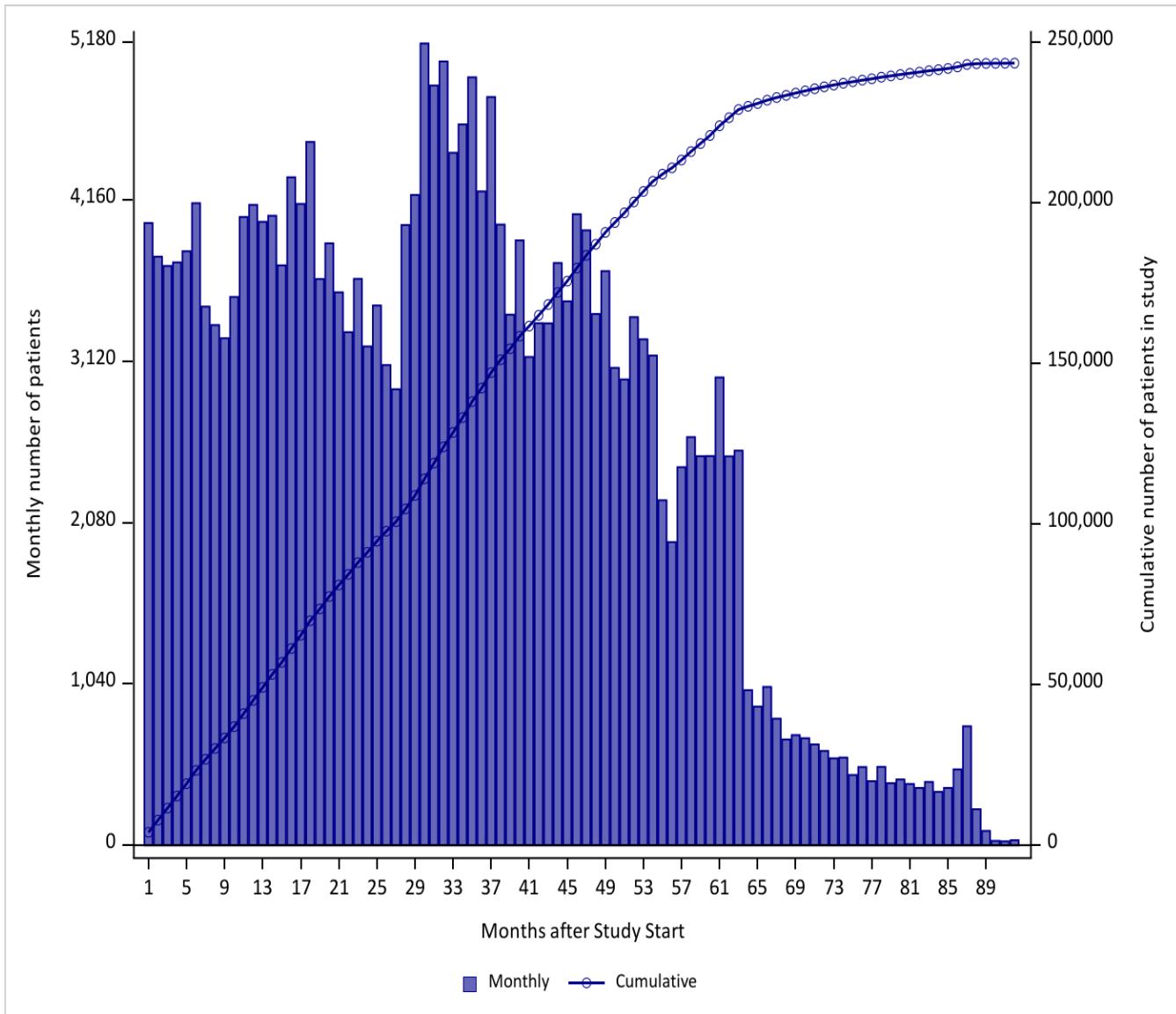


\*\*\*\*\*Figure is not presented due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

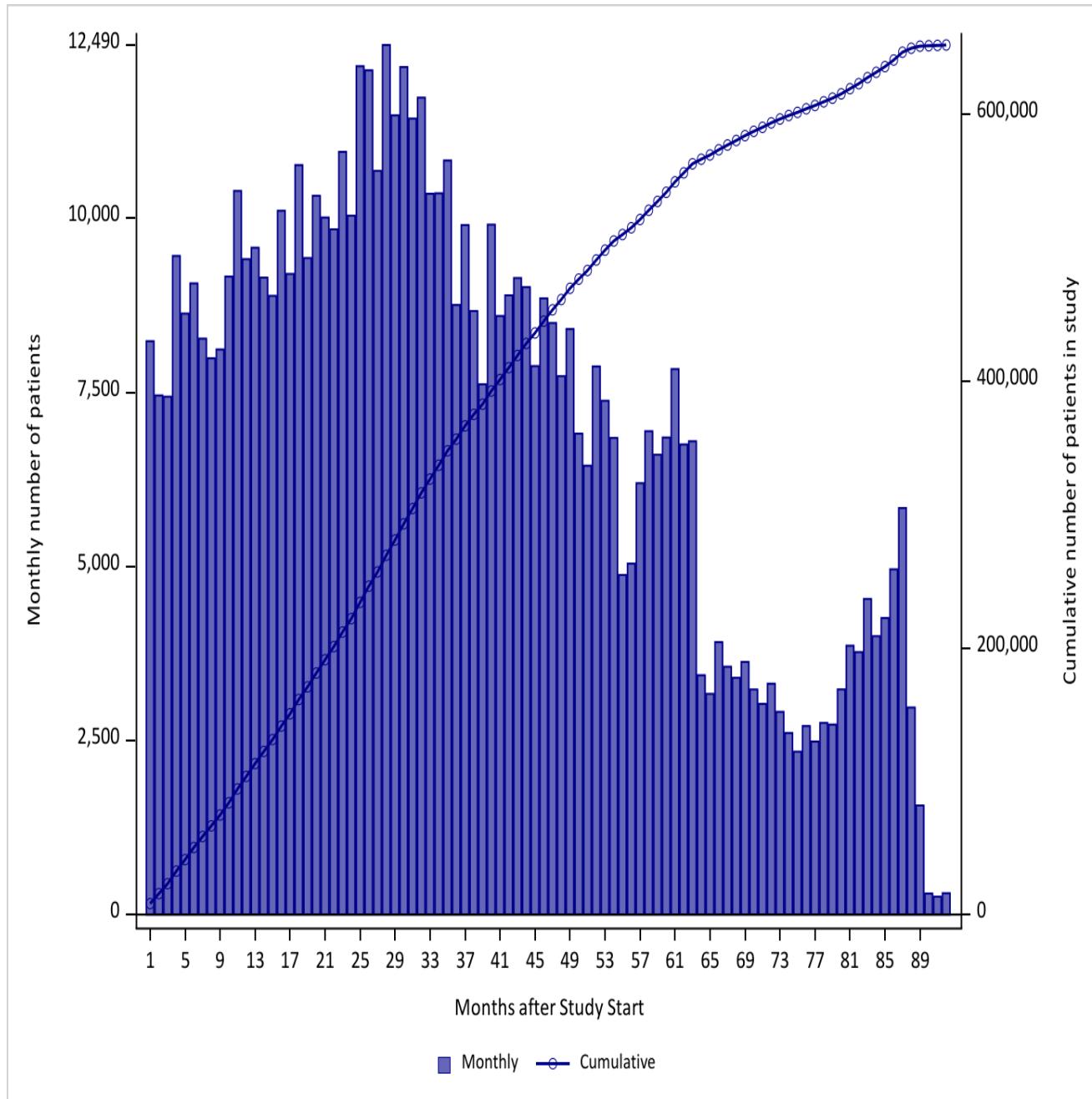
**Figure 1d. Patient Entry into Study by Month for Lixisenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**

\*\*\*\*\*Figure is not presented due to a small sample size or to assure a small cell cannot be recalculated through the cells presented.

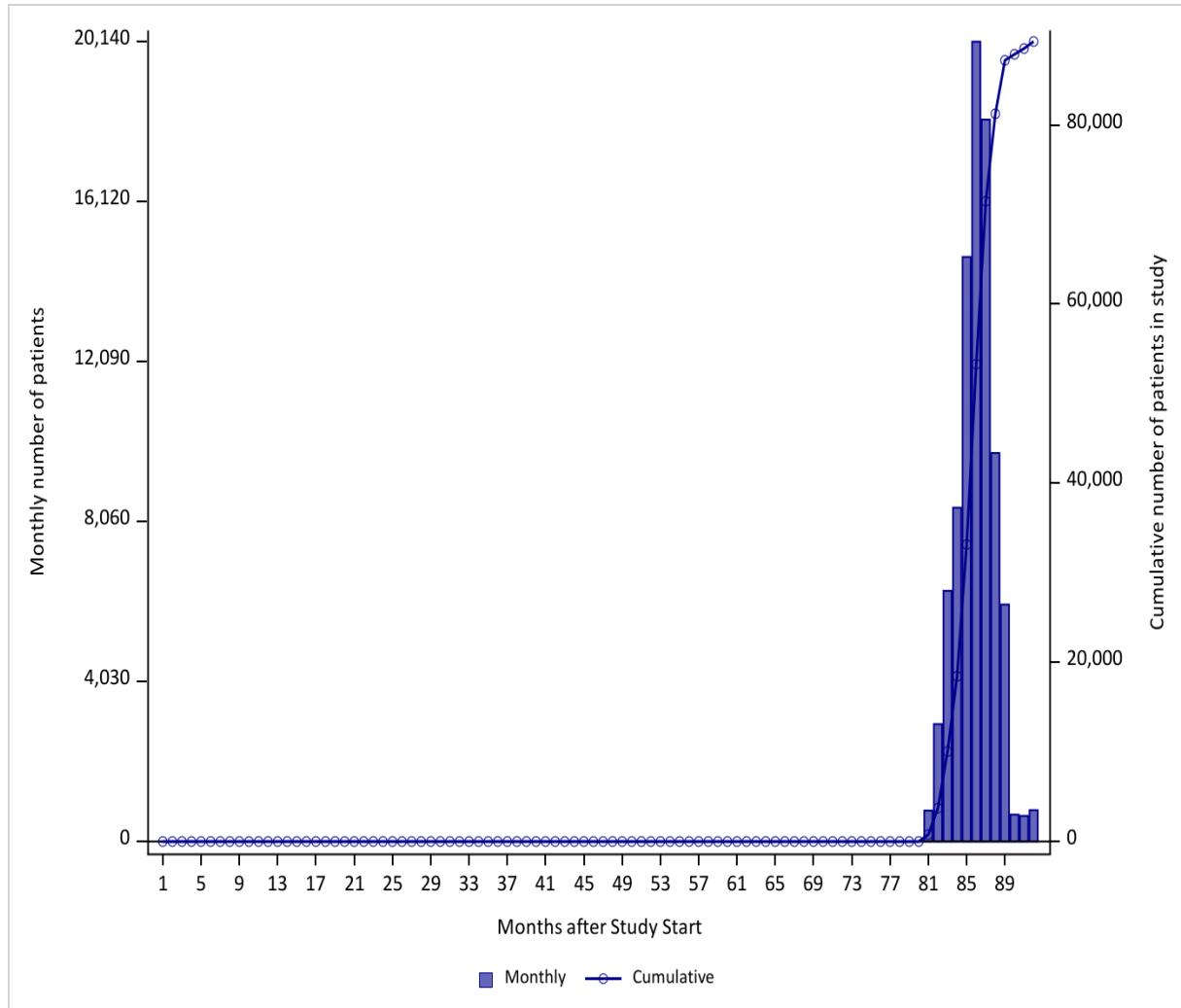
**Figure 1e. Patient Entry into Study by Month for Exenatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**



**Figure 1f. Patient Entry into Study by Month for Liraglutide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**



**Figure 1g. Patient Entry into Study by Month for Tirzepatide in the Sentinel Distributed Database from October 1, 2015 to April 30, 2023**



**Appendix A. Dates of Available Data for Each Data Partner (DP) as of Request Distribution Date (October 13, 2023)**

Masked DP ID	DP Start Date	DP End Date <sup>1</sup>
DP01	01/01/2006	02/28/2023
DP02	01/01/2007	01/31/2023
DP03	01/01/2008	12/31/2022
DP04	01/01/2014	12/31/2020
DP05	01/01/2008	04/30/2023
DP06	01/01/2010	12/31/2022

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

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

Generic Name	Brand Name
<b>All GLP1 Receptor Agonists</b>	
dulaglutide	Trulicity
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
insulin degludec/liraglutide	Xultophy 100/3.6
liraglutide	Saxenda
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak
lixisenatide	Adlyxin
semaglutide	Ozempic
semaglutide	Rybelsus
semaglutide	Wegovy
tirzepatide	Mounjaro
<b>Semaglutide</b>	
semaglutide	Ozempic
semaglutide	Rybelsus
semaglutide	Wegovy
<b>Dulaglutide</b>	
dulaglutide	Trulicity
<b>Lixisenatide</b>	
lixisenatide	Adlyxin
<b>Exenatide</b>	
exenatide	Byetta
exenatide microspheres	Bydureon
exenatide microspheres	Bydureon BCise
<b>Liraglutide</b>	
insulin degludec/liraglutide	Xultophy 100/3.6
liraglutide	Saxenda
liraglutide	Victoza 2-Pak
liraglutide	Victoza 3-Pak

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

Generic Name	Brand Name
	Tirzepatide
tirzepatide	Mounjaro

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
<b>Acquired Hypothyroidism</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>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	artery	Diagnosis	ICD-10-CM
I21.09	wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	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 C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define 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>Alzheimers Disease</b>			
331.0	Alzheimer's disease	Diagnosis	ICD-9-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
<b>Alzheimers Disease or Related Disorders or Senile Dementia</b>			
290.0	Senile dementia, uncomplicated	Diagnosis	ICD-9-CM
290.10	Presenile dementia, uncomplicated	Diagnosis	ICD-9-CM
290.11	Presenile dementia with delirium	Diagnosis	ICD-9-CM
290.12	Presenile dementia with delusional features	Diagnosis	ICD-9-CM
290.13	Presenile dementia with depressive features	Diagnosis	ICD-9-CM
290.20	Senile dementia with delusional features	Diagnosis	ICD-9-CM
290.21	Senile dementia with depressive features	Diagnosis	ICD-9-CM
290.3	Senile dementia with delirium	Diagnosis	ICD-9-CM
290.40	Vascular dementia, uncomplicated	Diagnosis	ICD-9-CM
290.41	Vascular dementia, with delirium	Diagnosis	ICD-9-CM
290.42	Vascular dementia, with delusions	Diagnosis	ICD-9-CM
290.43	Vascular dementia, with depressed mood	Diagnosis	ICD-9-CM
294.0	Amnestic disorder in conditions classified elsewhere	Diagnosis	ICD-9-CM
294.10	Dementia in conditions classified elsewhere without behavioral disturbance	Diagnosis	ICD-9-CM
294.11	Dementia in conditions classified elsewhere with behavioral disturbance	Diagnosis	ICD-9-CM
294.20	Dementia, unspecified, without behavioral disturbance	Diagnosis	ICD-9-CM
294.21	Dementia, unspecified, with behavioral disturbance	Diagnosis	ICD-9-CM
294.8	Other persistent mental disorders due to conditions classified elsewhere	Diagnosis	ICD-9-CM
331.0	Alzheimer's disease	Diagnosis	ICD-9-CM
331.11	Pick's disease	Diagnosis	ICD-9-CM
331.19	Other frontotemporal dementia	Diagnosis	ICD-9-CM
331.2	Senile degeneration of brain	Diagnosis	ICD-9-CM
331.7	Cerebral degeneration in diseases classified elsewhere	Diagnosis	ICD-9-CM
797	Senility without mention of psychosis	Diagnosis	ICD-9-CM
F01.50	Vascular dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F01.51	Vascular dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM
F02.80	Dementia in other diseases classified elsewhere, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F02.81	disturbance	Diagnosis	ICD-10-CM
F03.90	Unspecified dementia, unspecified severity, without behavioral disturbance, psychotic disturbance, mood disturbance, and anxiety	Diagnosis	ICD-10-CM
F03.91	Unspecified dementia, unspecified severity, with behavioral disturbance	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	elsewhere	Diagnosis	ICD-10-CM
G30.0	Alzheimer's disease with early onset	Diagnosis	ICD-10-CM
G30.1	Alzheimer's disease with late onset	Diagnosis	ICD-10-CM
G30.8	Other Alzheimer's disease	Diagnosis	ICD-10-CM
G30.9	Alzheimer's disease, unspecified	Diagnosis	ICD-10-CM
G31.01	Pick's disease	Diagnosis	ICD-10-CM
G31.09	Other frontotemporal neurocognitive disorder	Diagnosis	ICD-10-CM
G31.1	Senile degeneration of brain, not elsewhere classified	Diagnosis	ICD-10-CM
G31.2	Degeneration of nervous system due to alcohol	Diagnosis	ICD-10-CM
G94	Other disorders of brain in diseases classified elsewhere	Diagnosis	ICD-10-CM
R41.81	Age-related cognitive decline	Diagnosis	ICD-10-CM
R54	Age-related physical debility	Diagnosis	ICD-10-CM
<b>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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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	Myelophthysis	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	proteinuria	Diagnosis	ICD-10-CM
D51.2	Transcobalamin II deficiency	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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
D57.03	Hb-SS disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.09	Hb-SS disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.1	Sickle-cell disease without crisis	Diagnosis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	Diagnosis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	Diagnosis	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	Diagnosis	ICD-10-CM
D57.213	Sickle-cell/Hb-C disease with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.218	Sickle-cell/Hb-C disease with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	Diagnosis	ICD-10-CM
D57.3	Sickle-cell trait	Diagnosis	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	Diagnosis	ICD-10-CM
D57.411	Sickle-cell thalassemia, unspecified, with acute chest syndrome	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
D57.412	Sickle-cell thalassemia, unspecified, with splenic sequestration	Diagnosis	ICD-10-CM
D57.413	Sickle-cell thalassemia, unspecified, with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.418	Sickle-cell thalassemia, unspecified, with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.419	Sickle-cell thalassemia, unspecified, with crisis	Diagnosis	ICD-10-CM
D57.42	Sickle-cell thalassemia beta zero without crisis	Diagnosis	ICD-10-CM
D57.431	Sickle-cell thalassemia beta zero with acute chest syndrome	Diagnosis	ICD-10-CM
D57.432	Sickle-cell thalassemia beta zero with splenic sequestration	Diagnosis	ICD-10-CM
D57.433	Sickle-cell thalassemia beta zero with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.438	Sickle-cell thalassemia beta zero with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.439	Sickle-cell thalassemia beta zero with crisis, unspecified	Diagnosis	ICD-10-CM
D57.44	Sickle-cell thalassemia beta plus without crisis	Diagnosis	ICD-10-CM
D57.451	Sickle-cell thalassemia beta plus with acute chest syndrome	Diagnosis	ICD-10-CM
D57.452	Sickle-cell thalassemia beta plus with splenic sequestration	Diagnosis	ICD-10-CM
D57.453	Sickle-cell thalassemia beta plus with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.458	Sickle-cell thalassemia beta plus with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.459	Sickle-cell thalassemia beta plus with crisis, unspecified	Diagnosis	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	Diagnosis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	Diagnosis	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	Diagnosis	ICD-10-CM
D57.813	Other sickle-cell disorders with cerebral vascular involvement	Diagnosis	ICD-10-CM
D57.818	Other sickle-cell disorders with crisis with other specified complication	Diagnosis	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	Diagnosis	ICD-10-CM
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
D59.10	Autoimmune hemolytic anemia, unspecified	Diagnosis	ICD-10-CM
D59.11	Warm autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.12	Cold autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.13	Mixed type autoimmune hemolytic anemia	Diagnosis	ICD-10-CM
D59.19	Other autoimmune hemolytic anemia	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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	Myelophthysis	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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
493.92	Asthma, unspecified, with (acute) exacerbation	Diagnosis	ICD-9-CM
J45.20	Mild intermittent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.30	Mild persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	Diagnosis	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	Diagnosis	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	Diagnosis	ICD-10-CM
J45.990	Exercise induced bronchospasm	Diagnosis	ICD-10-CM
J45.991	Cough variant asthma	Diagnosis	ICD-10-CM
J45.998	Other asthma	Diagnosis	ICD-10-CM
J82.83	Eosinophilic asthma	Diagnosis	ICD-10-CM
<b>Atrial Fibrillation</b>			
427.31	Atrial fibrillation	Diagnosis	ICD-9-CM
I48.0	Paroxysmal atrial fibrillation	Diagnosis	ICD-10-CM
I48.1	Persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.11	Longstanding persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.19	Other persistent atrial fibrillation	Diagnosis	ICD-10-CM
I48.2	Chronic atrial fibrillation	Diagnosis	ICD-10-CM
I48.20	Chronic atrial fibrillation, unspecified	Diagnosis	ICD-10-CM
I48.21	Permanent atrial fibrillation	Diagnosis	ICD-10-CM
I48.91	Unspecified atrial fibrillation	Diagnosis	ICD-10-CM
<b>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 urinary tract symptoms [LUTS]	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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

**Breast Cancer**

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
C50.011	Malignant neoplasm of nipple and areola, right female breast	Diagnosis	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	Diagnosis	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	Diagnosis	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	Diagnosis	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	Diagnosis	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	Diagnosis	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	Diagnosis	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	Diagnosis	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	Diagnosis	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	Diagnosis	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	Diagnosis	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	Diagnosis	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	Diagnosis	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	Diagnosis	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	Diagnosis	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
V10.3	Personal history of malignant neoplasm of breast	Diagnosis	ICD-9-CM
Z85.3	Personal history of malignant neoplasm of breast	Diagnosis	ICD-10-CM

**Cataracts**

366.01	Anterior subcapsular polar cataract, nonsenile	Diagnosis	ICD-9-CM
366.02	Posterior subcapsular polar cataract, nonsenile	Diagnosis	ICD-9-CM
366.03	Cortical, lamellar, or zonular cataract, nonsenile	Diagnosis	ICD-9-CM
366.04	Nuclear cataract, nonsenile	Diagnosis	ICD-9-CM
366.09	Other and combined forms of nonsenile cataract	Diagnosis	ICD-9-CM
366.10	Unspecified senile cataract	Diagnosis	ICD-9-CM
366.12	Incipient cataract	Diagnosis	ICD-9-CM
366.13	Anterior subcapsular polar senile cataract	Diagnosis	ICD-9-CM
366.14	Posterior subcapsular polar senile cataract	Diagnosis	ICD-9-CM
366.15	Cortical senile cataract	Diagnosis	ICD-9-CM
366.16	Nuclear sclerosis	Diagnosis	ICD-9-CM
366.17	Total or mature senile cataract	Diagnosis	ICD-9-CM
366.18	Hypermature senile cataract	Diagnosis	ICD-9-CM
366.19	Other and combined forms of senile cataract	Diagnosis	ICD-9-CM
366.20	Unspecified traumatic cataract	Diagnosis	ICD-9-CM
366.21	Localized traumatic opacities of cataract	Diagnosis	ICD-9-CM
366.22	Total traumatic cataract	Diagnosis	ICD-9-CM
366.23	Partially resolved traumatic cataract	Diagnosis	ICD-9-CM
366.30	Unspecified cataracta complicata	Diagnosis	ICD-9-CM
366.45	Toxic cataract	Diagnosis	ICD-9-CM
366.46	Cataract associated with radiation and other physical influences	Diagnosis	ICD-9-CM
366.50	Unspecified after-cataract	Diagnosis	ICD-9-CM
366.51	Soemmering's ring	Diagnosis	ICD-9-CM
366.52	Other after-cataract, not obscuring vision	Diagnosis	ICD-9-CM
366.53	After-cataract, obscuring vision	Diagnosis	ICD-9-CM
366.8	Other cataract	Diagnosis	ICD-9-CM
366.9	Unspecified cataract	Diagnosis	ICD-9-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
379.26	Vitreous prolapse	Diagnosis	ICD-9-CM
379.31	Aphakia	Diagnosis	ICD-9-CM
379.39	Other disorders of lens	Diagnosis	ICD-9-CM
743.30	Unspecified congenital cataract	Diagnosis	ICD-9-CM
743.31	Congenital capsular and subcapsular cataract	Diagnosis	ICD-9-CM
743.32	Congenital cortical and zonular cataract	Diagnosis	ICD-9-CM
743.33	Congenital nuclear cataract	Diagnosis	ICD-9-CM
H25.011	Cortical age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.012	Cortical age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.013	Cortical age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.019	Cortical age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.031	Anterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.032	Anterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.033	Anterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.039	Anterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.041	Posterior subcapsular polar age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.042	Posterior subcapsular polar age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.043	Posterior subcapsular polar age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.049	Posterior subcapsular polar age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.091	Other age-related incipient cataract, right eye	Diagnosis	ICD-10-CM
H25.092	Other age-related incipient cataract, left eye	Diagnosis	ICD-10-CM
H25.093	Other age-related incipient cataract, bilateral	Diagnosis	ICD-10-CM
H25.099	Other age-related incipient cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.10	Age-related nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.11	Age-related nuclear cataract, right eye	Diagnosis	ICD-10-CM
H25.12	Age-related nuclear cataract, left eye	Diagnosis	ICD-10-CM
H25.13	Age-related nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H25.20	Age-related cataract, morgagnian type, unspecified eye	Diagnosis	ICD-10-CM
H25.21	Age-related cataract, morgagnian type, right eye	Diagnosis	ICD-10-CM
H25.22	Age-related cataract, morgagnian type, left eye	Diagnosis	ICD-10-CM
H25.23	Age-related cataract, morgagnian type, bilateral	Diagnosis	ICD-10-CM
H25.811	Combined forms of age-related cataract, right eye	Diagnosis	ICD-10-CM
H25.812	Combined forms of age-related cataract, left eye	Diagnosis	ICD-10-CM
H25.813	Combined forms of age-related cataract, bilateral	Diagnosis	ICD-10-CM
H25.819	Combined forms of age-related cataract, unspecified eye	Diagnosis	ICD-10-CM
H25.89	Other age-related cataract	Diagnosis	ICD-10-CM
H25.9	Unspecified age-related cataract	Diagnosis	ICD-10-CM
H26.011	Infantile and juvenile cortical, lamellar, or zonular cataract, right eye	Diagnosis	ICD-10-CM
H26.012	Infantile and juvenile cortical, lamellar, or zonular cataract, left eye	Diagnosis	ICD-10-CM
H26.013	Infantile and juvenile cortical, lamellar, or zonular cataract, bilateral	Diagnosis	ICD-10-CM
H26.019	Infantile and juvenile cortical, lamellar, or zonular cataract, unspecified eye	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
H26.031	Infantile and juvenile nuclear cataract, right eye	Diagnosis	ICD-10-CM
H26.032	Infantile and juvenile nuclear cataract, left eye	Diagnosis	ICD-10-CM
H26.033	Infantile and juvenile nuclear cataract, bilateral	Diagnosis	ICD-10-CM
H26.039	Infantile and juvenile nuclear cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.041	Anterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.042	Anterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.043	Anterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.049	Anterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.051	Posterior subcapsular polar infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.052	Posterior subcapsular polar infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.053	Posterior subcapsular polar infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.059	Posterior subcapsular polar infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.061	Combined forms of infantile and juvenile cataract, right eye	Diagnosis	ICD-10-CM
H26.062	Combined forms of infantile and juvenile cataract, left eye	Diagnosis	ICD-10-CM
H26.063	Combined forms of infantile and juvenile cataract, bilateral	Diagnosis	ICD-10-CM
H26.069	Combined forms of infantile and juvenile cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.09	Other infantile and juvenile cataract	Diagnosis	ICD-10-CM
H26.101	Unspecified traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.102	Unspecified traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.103	Unspecified traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.109	Unspecified traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.111	Localized traumatic opacities, right eye	Diagnosis	ICD-10-CM
H26.112	Localized traumatic opacities, left eye	Diagnosis	ICD-10-CM
H26.113	Localized traumatic opacities, bilateral	Diagnosis	ICD-10-CM
H26.119	Localized traumatic opacities, unspecified eye	Diagnosis	ICD-10-CM
H26.121	Partially resolved traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.122	Partially resolved traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.123	Partially resolved traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.129	Partially resolved traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.131	Total traumatic cataract, right eye	Diagnosis	ICD-10-CM
H26.132	Total traumatic cataract, left eye	Diagnosis	ICD-10-CM
H26.133	Total traumatic cataract, bilateral	Diagnosis	ICD-10-CM
H26.139	Total traumatic cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.20	Unspecified complicated cataract	Diagnosis	ICD-10-CM
H26.211	Cataract with neovascularization, right eye	Diagnosis	ICD-10-CM
H26.212	Cataract with neovascularization, left eye	Diagnosis	ICD-10-CM
H26.213	Cataract with neovascularization, bilateral	Diagnosis	ICD-10-CM
H26.219	Cataract with neovascularization, unspecified eye	Diagnosis	ICD-10-CM
H26.30	Drug-induced cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.31	Drug-induced cataract, right eye	Diagnosis	ICD-10-CM
H26.32	Drug-induced cataract, left eye	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
H26.33	Drug-induced cataract, bilateral	Diagnosis	ICD-10-CM
H26.40	Unspecified secondary cataract	Diagnosis	ICD-10-CM
H26.411	Soemmering's ring, right eye	Diagnosis	ICD-10-CM
H26.412	Soemmering's ring, left eye	Diagnosis	ICD-10-CM
H26.413	Soemmering's ring, bilateral	Diagnosis	ICD-10-CM
H26.419	Soemmering's ring, unspecified eye	Diagnosis	ICD-10-CM
H26.491	Other secondary cataract, right eye	Diagnosis	ICD-10-CM
H26.492	Other secondary cataract, left eye	Diagnosis	ICD-10-CM
H26.493	Other secondary cataract, bilateral	Diagnosis	ICD-10-CM
H26.499	Other secondary cataract, unspecified eye	Diagnosis	ICD-10-CM
H26.8	Other specified cataract	Diagnosis	ICD-10-CM
H26.9	Unspecified cataract	Diagnosis	ICD-10-CM
Q12.0	Congenital cataract	Diagnosis	ICD-10-CM
V43.1	Lens replaced by other means	Diagnosis	ICD-9-CM
Z96.1	Presence of intraocular lens	Diagnosis	ICD-10-CM

**Chronic Kidney Disease**

016.00	Tuberculosis of kidney, confirmation unspecified	Diagnosis	ICD-9-CM
016.01	Tuberculosis of kidney, bacteriological or histological examination not done	Diagnosis	ICD-9-CM
016.02	Tuberculosis of kidney, bacteriological or histological examination unknown (at present)	Diagnosis	ICD-9-CM
016.03	Tuberculosis of kidney, tubercle bacilli found (in sputum) by microscopy	Diagnosis	ICD-9-CM
016.04	Tuberculosis of kidney, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture	Diagnosis	ICD-9-CM
016.05	Tuberculosis of kidney, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically	Diagnosis	ICD-9-CM
016.06	Tuberculosis of kidney, tubercle bacilli not found by bacteriological or histological examination, but tuberculosis confirmed by other methods [inoculation of animals]	Diagnosis	ICD-9-CM
095.4	Syphilis of kidney	Diagnosis	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
189.9	Malignant neoplasm of urinary organ, site unspecified	Diagnosis	ICD-9-CM
223.0	Benign neoplasm of kidney, except pelvis	Diagnosis	ICD-9-CM
236.91	Neoplasm of uncertain behavior of kidney and ureter	Diagnosis	ICD-9-CM
249.40	unspecified	Diagnosis	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	Diagnosis	ICD-9-CM
250.40	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
581.2	Nephrotic syndrome with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
581.3	Nephrotic syndrome with lesion of minimal change glomerulonephritis	Diagnosis	ICD-9-CM
581.81	Nephrotic syndrome with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM
581.89	Other nephrotic syndrome with specified pathological lesion in kidney	Diagnosis	ICD-9-CM
581.9	Nephrotic syndrome with unspecified pathological lesion in kidney	Diagnosis	ICD-9-CM
582.0	Chronic glomerulonephritis with lesion of proliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.1	Chronic glomerulonephritis with lesion of membranous glomerulonephritis	Diagnosis	ICD-9-CM
582.2	Chronic glomerulonephritis with lesion of membranoproliferative glomerulonephritis	Diagnosis	ICD-9-CM
582.4	Chronic glomerulonephritis with lesion of rapidly progressive glomerulonephritis	Diagnosis	ICD-9-CM
582.81	Chronic glomerulonephritis with other specified pathological lesion in kidney in diseases classified elsewhere	Diagnosis	ICD-9-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	renal disease	Diagnosis	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.10	Hypertensive heart and chronic kidney disease without heart failure, with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	Diagnosis	ICD-10-CM
I13.11	Hypertensive heart and chronic kidney disease without heart failure, with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or end stage renal disease	Diagnosis	ICD-10-CM
I70.1	Atherosclerosis of renal artery	Diagnosis	ICD-10-CM
I72.2	Aneurysm of renal artery	Diagnosis	ICD-10-CM
K76.7	Hepatorenal syndrome	Diagnosis	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	Diagnosis	ICD-10-CM
M10.311	Gout due to renal impairment, right shoulder	Diagnosis	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	Diagnosis	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	Diagnosis	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	Diagnosis	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	Diagnosis	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	Diagnosis	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	Diagnosis	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	Diagnosis	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	Diagnosis	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	Diagnosis	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	Diagnosis	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	Diagnosis	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	Diagnosis	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	Diagnosis	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	Diagnosis	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	Sjogren syndrome with tubulo-interstitial nephropathy	Diagnosis	ICD-10-CM
N00.0	Acute nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N00.1	Acute nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N00.2	Acute nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N00.3	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N00.6	Acute nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N00.8	Acute nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N00.9	Acute nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N00.A	Acute nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N01.3	glomerulonephritis	Diagnosis	ICD-10-CM
N01.4	glomerulonephritis	Diagnosis	ICD-10-CM
N01.5	glomerulonephritis	Diagnosis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N01.A	Rapidly progressive nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N02.3	glomerulonephritis	Diagnosis	ICD-10-CM
N02.4	glomerulonephritis	Diagnosis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	Diagnosis	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	Diagnosis	ICD-10-CM
N02.A	Recurrent and persistent hematuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N03.A	Chronic nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N04.A	Nephrotic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	Diagnosis	ICD-10-CM
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	glomerulonephritis	Diagnosis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	Diagnosis	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	Diagnosis	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	Diagnosis	ICD-10-CM
N05.A	Unspecified nephritic syndrome with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N06.0	Isolated proteinuria with minor glomerular abnormality	Diagnosis	ICD-10-CM
N06.1	Isolated proteinuria with focal and segmental glomerular lesions	Diagnosis	ICD-10-CM
N06.2	Isolated proteinuria with diffuse membranous glomerulonephritis	Diagnosis	ICD-10-CM
N06.3	Isolated proteinuria with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.4	Isolated proteinuria with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N06.5	Isolated proteinuria with diffuse mesangiocapillary glomerulonephritis	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
N06.6	Isolated proteinuria with dense deposit disease	Diagnosis	ICD-10-CM
N06.7	Isolated proteinuria with diffuse crescentic glomerulonephritis	Diagnosis	ICD-10-CM
N06.8	Isolated proteinuria with other morphologic lesion	Diagnosis	ICD-10-CM
N06.9	Isolated proteinuria with unspecified morphologic lesion	Diagnosis	ICD-10-CM
N06.A	Isolated proteinuria with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N07.0	Hereditary nephropathy, not elsewhere classified with minor glomerular abnormality	Diagnosis	ICD-10-CM
N07.1	lesions	Diagnosis	ICD-10-CM
N07.2	glomerulonephritis	Diagnosis	ICD-10-CM
N07.3	Hereditary nephropathy, not elsewhere classified with diffuse mesangial proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.4	Hereditary nephropathy, not elsewhere classified with diffuse endocapillary proliferative glomerulonephritis	Diagnosis	ICD-10-CM
N07.5	glomerulonephritis	Diagnosis	ICD-10-CM
N07.6	Hereditary nephropathy, not elsewhere classified with dense deposit disease	Diagnosis	ICD-10-CM
N07.7	glomerulonephritis	Diagnosis	ICD-10-CM
N07.8	Hereditary nephropathy, not elsewhere classified with other morphologic lesions	Diagnosis	ICD-10-CM
N07.9	Hereditary nephropathy, not elsewhere classified with unspecified morphologic lesions	Diagnosis	ICD-10-CM
N07.A	Hereditary nephropathy, not elsewhere classified with C3 glomerulonephritis	Diagnosis	ICD-10-CM
N08	Glomerular disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N13.1	Hydronephrosis with ureteral stricture, not elsewhere classified	Diagnosis	ICD-10-CM
N13.2	Hydronephrosis with renal and ureteral calculous obstruction	Diagnosis	ICD-10-CM
N13.30	Unspecified hydronephrosis	Diagnosis	ICD-10-CM
N13.39	Other hydronephrosis	Diagnosis	ICD-10-CM
N14.0	Analgesic nephropathy	Diagnosis	ICD-10-CM
N14.1	Nephropathy induced by other drugs, medicaments and biological substances	Diagnosis	ICD-10-CM
N14.2	Nephropathy induced by unspecified drug, medicament or biological substance	Diagnosis	ICD-10-CM
N14.3	Nephropathy induced by heavy metals	Diagnosis	ICD-10-CM
N14.4	Toxic nephropathy, not elsewhere classified	Diagnosis	ICD-10-CM
N15.0	Balkan nephropathy	Diagnosis	ICD-10-CM
N15.8	Other specified renal tubulo-interstitial diseases	Diagnosis	ICD-10-CM
N15.9	Renal tubulo-interstitial disease, unspecified	Diagnosis	ICD-10-CM
N16	Renal tubulo-interstitial disorders in diseases classified elsewhere	Diagnosis	ICD-10-CM
N17.0	Acute kidney failure with tubular necrosis	Diagnosis	ICD-10-CM
N17.1	Acute kidney failure with acute cortical necrosis	Diagnosis	ICD-10-CM
N17.2	Acute kidney failure with medullary necrosis	Diagnosis	ICD-10-CM
N17.8	Other acute kidney failure	Diagnosis	ICD-10-CM
N17.9	Acute kidney failure, unspecified	Diagnosis	ICD-10-CM
N18.1	Chronic kidney disease, stage 1	Diagnosis	ICD-10-CM
N18.2	Chronic kidney disease, stage 2 (mild)	Diagnosis	ICD-10-CM
N18.3	Chronic kidney disease, stage 3 (moderate)	Diagnosis	ICD-10-CM
N18.30	Chronic kidney disease, stage 3 unspecified	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
N18.31	Chronic kidney disease, stage 3a	Diagnosis	ICD-10-CM
N18.32	Chronic kidney disease, stage 3b	Diagnosis	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	Diagnosis	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	Diagnosis	ICD-10-CM
N18.6	End stage renal disease	Diagnosis	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	Diagnosis	ICD-10-CM
N19	Unspecified kidney failure	Diagnosis	ICD-10-CM
N25.0	Renal osteodystrophy	Diagnosis	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	Diagnosis	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	Diagnosis	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	Diagnosis	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	Diagnosis	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	Diagnosis	ICD-10-CM
N26.9	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

**Chronic Obstructive Pulmonary Disease**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Colorectal Cancer**

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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
D01.1	Carcinoma in situ of rectosigmoid junction	Diagnosis	ICD-10-CM
D01.2	Carcinoma in situ of rectum	Diagnosis	ICD-10-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
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	anus	Diagnosis	ICD-10-CM

**Depression**

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	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	behavior	Diagnosis	ICD-9-CM
296.34	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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

**Diabetes**

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	unspecified	Diagnosis	ICD-9-CM
249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	Diagnosis	ICD-9-CM
249.20	unspecified	Diagnosis	ICD-9-CM
249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	Diagnosis	ICD-9-CM
249.30	unspecified	Diagnosis	ICD-9-CM
249.31	Secondary diabetes mellitus with other coma, uncontrolled	Diagnosis	ICD-9-CM
249.40	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	uncontrolled	Diagnosis	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	Diagnosis	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	Diagnosis	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	Diagnosis	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	Diagnosis	ICD-9-CM
250.40	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	uncontrolled	Diagnosis	ICD-9-CM
250.51	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	uncontrolled	Diagnosis	ICD-9-CM
250.61	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	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	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	uncontrolled	Diagnosis	ICD-9-CM
250.91	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
362.03	Nonproliferative diabetic retinopathy NOS	Diagnosis	ICD-9-CM
362.04	Mild nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.05	Moderate nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
362.06	Severe nonproliferative diabetic retinopathy	Diagnosis	ICD-9-CM
366.41	Diabetic cataract	Diagnosis	ICD-9-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	Diagnosis	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	Diagnosis	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.341	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3531	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E08.3539	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E08.3541	with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E08.3542	with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E08.3543	with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E08.3549	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	Diagnosis	ICD-10-CM
E08.37X1	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	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	(poly)neuropathy	Diagnosis	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	Diagnosis	ICD-10-CM
E08.49	complication	Diagnosis	ICD-10-CM
E08.51	without gangrene	Diagnosis	ICD-10-CM
E08.52	gangrene	Diagnosis	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	Diagnosis	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	Diagnosis	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	Diagnosis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	Diagnosis	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	Diagnosis	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	Diagnosis	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	Diagnosis	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	Diagnosis	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	Diagnosis	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	Diagnosis	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	Diagnosis	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	Diagnosis	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	Diagnosis	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	Diagnosis	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	Diagnosis	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	complication	Diagnosis	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	Diagnosis	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	Diagnosis	ICD-10-CM
E09.51	gangrene	Diagnosis	ICD-10-CM
E09.52	gangrene	Diagnosis	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	Diagnosis	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	Diagnosis	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	Diagnosis	ICD-10-CM
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	Diagnosis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	Diagnosis	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	Diagnosis	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	Diagnosis	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	Diagnosis	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	Diagnosis	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	Diagnosis	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	Diagnosis	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	Diagnosis	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	edema	Diagnosis	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.329	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	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	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	edema	Diagnosis	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	Diagnosis	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	Diagnosis	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.349	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	right eye	Diagnosis	ICD-10-CM
E10.3512	left eye	Diagnosis	ICD-10-CM
E10.3513	bilateral	Diagnosis	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	Diagnosis	ICD-10-CM
E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	Diagnosis	ICD-10-CM
E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	Diagnosis	ICD-10-CM
E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	Diagnosis	ICD-10-CM
E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	Diagnosis	ICD-10-CM
E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	Diagnosis	ICD-10-CM
E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	Diagnosis	ICD-10-CM
E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	Diagnosis	ICD-10-CM
E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	Diagnosis	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	Diagnosis	ICD-10-CM
E10.3591	edema, right eye	Diagnosis	ICD-10-CM
E10.3592	edema, left eye	Diagnosis	ICD-10-CM
E10.3593	edema, bilateral	Diagnosis	ICD-10-CM
E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E10.37X1	right eye	Diagnosis	ICD-10-CM
E10.37X2	left eye	Diagnosis	ICD-10-CM
E10.37X3	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 C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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	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	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	right eye	Diagnosis	ICD-10-CM
E11.3512	left eye	Diagnosis	ICD-10-CM
E11.3513	bilateral	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	edema, right eye	Diagnosis	ICD-10-CM
E11.3592	edema, left eye	Diagnosis	ICD-10-CM
E11.3593	edema, bilateral	Diagnosis	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E11.37X1	right eye	Diagnosis	ICD-10-CM
E11.37X2	left eye	Diagnosis	ICD-10-CM
E11.37X3	bilateral	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	edema	Diagnosis	ICD-10-CM
E13.319	edema	Diagnosis	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	Diagnosis	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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 C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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, right eye	Diagnosis	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	Diagnosis	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	Diagnosis	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	Diagnosis	ICD-10-CM
E13.3551	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	unspecified eye	Diagnosis	ICD-10-CM
E13.359	macular edema	Diagnosis	ICD-10-CM
E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	Diagnosis	ICD-10-CM
E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	Diagnosis	ICD-10-CM
E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	Diagnosis	ICD-10-CM
E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	Diagnosis	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	Diagnosis	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	Diagnosis	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	Diagnosis	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	Diagnosis	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	Diagnosis	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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>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
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
V10.42	Personal history of malignant neoplasm of other parts of uterus	Diagnosis	ICD-9-CM
Z85.42	Personal history of malignant neoplasm of other parts of uterus	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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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, indeterminate stage	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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
H40.43X4	Glaucoma secondary to eye inflammation, bilateral, indeterminate stage	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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 stage	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
428.0	Congestive heart failure, unspecified	Diagnosis	ICD-9-CM
428.1	Left heart failure	Diagnosis	ICD-9-CM
428.20	Unspecified systolic heart failure	Diagnosis	ICD-9-CM
428.21	Acute systolic heart failure	Diagnosis	ICD-9-CM
428.22	Chronic systolic heart failure	Diagnosis	ICD-9-CM
428.23	Acute on chronic systolic heart failure	Diagnosis	ICD-9-CM
428.30	Unspecified diastolic heart failure	Diagnosis	ICD-9-CM
428.31	Acute diastolic heart failure	Diagnosis	ICD-9-CM
428.32	Chronic diastolic heart failure	Diagnosis	ICD-9-CM
428.33	Acute on chronic diastolic heart failure	Diagnosis	ICD-9-CM
428.40	Unspecified combined systolic and diastolic heart failure	Diagnosis	ICD-9-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code	Code Type
		Category	
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>Hip or Pelvic Fracture</b>			
733.14	Pathologic fracture of neck of femur	Diagnosis	ICD-9-CM
733.15	Pathologic fracture of other specified part of femur	Diagnosis	ICD-9-CM
733.96	Stress fracture of femoral neck	Diagnosis	ICD-9-CM
733.97	Stress fracture of shaft of femur	Diagnosis	ICD-9-CM
733.98	Stress fracture of pelvis	Diagnosis	ICD-9-CM
808.0	Closed fracture of acetabulum	Diagnosis	ICD-9-CM
808.1	Open fracture of acetabulum	Diagnosis	ICD-9-CM
808.2	Closed fracture of pubis	Diagnosis	ICD-9-CM
808.3	Open fracture of pubis	Diagnosis	ICD-9-CM
808.41	Closed fracture of ilium	Diagnosis	ICD-9-CM
808.42	Closed fracture of ischium	Diagnosis	ICD-9-CM
808.43	Multiple closed pelvic fractures with disruption of pelvic circle	Diagnosis	ICD-9-CM
808.44	Multiple closed pelvic fractures without disruption of pelvic circle	Diagnosis	ICD-9-CM
808.49	Closed fracture of other specified part of pelvis	Diagnosis	ICD-9-CM
808.51	Open fracture of ilium	Diagnosis	ICD-9-CM
808.52	Open fracture of ischium	Diagnosis	ICD-9-CM
808.53	Multiple open pelvic fractures with disruption of pelvic circle	Diagnosis	ICD-9-CM
808.54	Multiple open pelvic fractures without disruption of pelvic circle	Diagnosis	ICD-9-CM
808.59	Open fracture of other specified part of pelvis	Diagnosis	ICD-9-CM
808.8	Unspecified closed fracture of pelvis	Diagnosis	ICD-9-CM
808.9	Unspecified open fracture of pelvis	Diagnosis	ICD-9-CM
820.00	Closed fracture of unspecified intracapsular section of neck of femur	Diagnosis	ICD-9-CM
820.01	Closed fracture of epiphysis (separation) (upper) of neck of femur	Diagnosis	ICD-9-CM
820.02	Closed fracture of midcervical section of femur	Diagnosis	ICD-9-CM
820.03	Closed fracture of base of neck of femur	Diagnosis	ICD-9-CM
820.09	Other closed transcervical fracture of femur	Diagnosis	ICD-9-CM
820.10	Open fracture of unspecified intracapsular section of neck of femur	Diagnosis	ICD-9-CM
820.11	Open fracture of epiphysis (separation) (upper) of neck of femur	Diagnosis	ICD-9-CM
820.12	Open fracture of midcervical section of femur	Diagnosis	ICD-9-CM
820.13	Open fracture of base of neck of femur	Diagnosis	ICD-9-CM
820.19	Other open transcervical fracture of femur	Diagnosis	ICD-9-CM
820.20	Closed fracture of unspecified trochanteric section of femur	Diagnosis	ICD-9-CM
820.21	Closed fracture of intertrochanteric section of femur	Diagnosis	ICD-9-CM
820.22	Closed fracture of subtrochanteric section of femur	Diagnosis	ICD-9-CM
820.30	Open fracture of unspecified trochanteric section of femur	Diagnosis	ICD-9-CM
820.31	Open fracture of intertrochanteric section of femur	Diagnosis	ICD-9-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
820.32	Open fracture of subtrochanteric section of femur	Diagnosis	ICD-9-CM
820.8	Closed fracture of unspecified part of neck of femur	Diagnosis	ICD-9-CM
820.9	Open fracture of unspecified part of neck of femur	Diagnosis	ICD-9-CM
M80.051A	Age-related osteoporosis with current pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.052A	Age-related osteoporosis with current pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.059A	Age-related osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M80.851A	fracture	Diagnosis	ICD-10-CM
M80.852A	fracture	Diagnosis	ICD-10-CM
M80.859A	Other osteoporosis with current pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.350A	Stress fracture, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.351A	Stress fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.352A	Stress fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.353A	Stress fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.359A	Stress fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.451A	Pathological fracture, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.452A	Pathological fracture, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.453A	Pathological fracture, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.459A	Pathological fracture, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.550A	Pathological fracture in neoplastic disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.551A	Pathological fracture in neoplastic disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.552A	Pathological fracture in neoplastic disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.553A	fracture	Diagnosis	ICD-10-CM
M84.559A	fracture	Diagnosis	ICD-10-CM
M84.650A	Pathological fracture in other disease, pelvis, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.651A	Pathological fracture in other disease, right femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.652A	Pathological fracture in other disease, left femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.653A	Pathological fracture in other disease, unspecified femur, initial encounter for fracture	Diagnosis	ICD-10-CM
M84.659A	Pathological fracture in other disease, hip, unspecified, initial encounter for fracture	Diagnosis	ICD-10-CM
S32.301A	Unspecified fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.301B	Unspecified fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.302A	Unspecified fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.302B	Unspecified fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.309A	Unspecified fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.309B	Unspecified fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.311A	Displaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.311B	Displaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.312A	Displaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S32.312B	Displaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.313A	Displaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.313B	Displaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.314A	Nondisplaced avulsion fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.314B	Nondisplaced avulsion fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.315A	Nondisplaced avulsion fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.315B	Nondisplaced avulsion fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.316A	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.316B	Nondisplaced avulsion fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.391A	Other fracture of right ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.391B	Other fracture of right ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.392A	Other fracture of left ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.392B	Other fracture of left ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.399A	Other fracture of unspecified ilium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.399B	Other fracture of unspecified ilium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.401A	Unspecified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.401B	Unspecified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.402A	Unspecified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.402B	Unspecified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.409A	Unspecified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.409B	Unspecified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.411A	fracture	Diagnosis	ICD-10-CM
S32.411B	fracture	Diagnosis	ICD-10-CM
S32.412A	fracture	Diagnosis	ICD-10-CM
S32.412B	fracture	Diagnosis	ICD-10-CM
S32.413A	Displaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.413B	fracture	Diagnosis	ICD-10-CM
S32.414A	fracture	Diagnosis	ICD-10-CM
S32.414B	fracture	Diagnosis	ICD-10-CM
S32.415A	fracture	Diagnosis	ICD-10-CM
S32.415B	fracture	Diagnosis	ICD-10-CM
S32.416A	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.416B	Nondisplaced fracture of anterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.421A	fracture	Diagnosis	ICD-10-CM
S32.421B	fracture	Diagnosis	ICD-10-CM
S32.422A	fracture	Diagnosis	ICD-10-CM
S32.422B	fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S32.423A	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.423B	Displaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.424A	fracture	Diagnosis	ICD-10-CM
S32.424B	fracture	Diagnosis	ICD-10-CM
S32.425A	fracture	Diagnosis	ICD-10-CM
S32.425B	fracture	Diagnosis	ICD-10-CM
S32.426A	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.426B	Nondisplaced fracture of posterior wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.431A	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.431B	Displaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.432A	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.432B	Displaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.433A	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.433B	Displaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.434A	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.434B	Nondisplaced fracture of anterior column [iliopubic] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.435A	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.435B	Nondisplaced fracture of anterior column [iliopubic] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.436A	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.436B	Nondisplaced fracture of anterior column [iliopubic] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.441A	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.441B	Displaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S32.442A	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.442B	Displaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.443A	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.443B	Displaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.444A	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.444B	Nondisplaced fracture of posterior column [ilioischial] of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.445A	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.445B	Nondisplaced fracture of posterior column [ilioischial] of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.446A	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.446B	Nondisplaced fracture of posterior column [ilioischial] of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.451A	Displaced transverse fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.451B	Displaced transverse fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.452A	Displaced transverse fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.452B	Displaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.453A	fracture	Diagnosis	ICD-10-CM
S32.453B	fracture	Diagnosis	ICD-10-CM
S32.454A	fracture	Diagnosis	ICD-10-CM
S32.454B	fracture	Diagnosis	ICD-10-CM
S32.455A	fracture	Diagnosis	ICD-10-CM
S32.455B	Nondisplaced transverse fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.456A	closed fracture	Diagnosis	ICD-10-CM
S32.456B	fracture	Diagnosis	ICD-10-CM
S32.461A	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.461B	Displaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.462A	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.462B	Displaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.463A	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.463B	Displaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.464A	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.464B	Nondisplaced associated transverse-posterior fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.465A	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.465B	Nondisplaced associated transverse-posterior fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.466A	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.466B	Nondisplaced associated transverse-posterior fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.471A	fracture	Diagnosis	ICD-10-CM
S32.471B	fracture	Diagnosis	ICD-10-CM
S32.472A	fracture	Diagnosis	ICD-10-CM
S32.472B	Displaced fracture of medial wall of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.473A	fracture	Diagnosis	ICD-10-CM
S32.473B	fracture	Diagnosis	ICD-10-CM
S32.474A	fracture	Diagnosis	ICD-10-CM
S32.474B	fracture	Diagnosis	ICD-10-CM
S32.475A	fracture	Diagnosis	ICD-10-CM
S32.475B	fracture	Diagnosis	ICD-10-CM
S32.476A	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.476B	Nondisplaced fracture of medial wall of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.481A	Displaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.481B	Displaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.482A	Displaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.482B	Displaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.483A	fracture	Diagnosis	ICD-10-CM
S32.483B	Displaced dome fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.484A	Nondisplaced dome fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.484B	Nondisplaced dome fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.485A	Nondisplaced dome fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.485B	Nondisplaced dome fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.486A	fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S32.486B	fracture	Diagnosis	ICD-10-CM
S32.491A	Other specified fracture of right acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.491B	Other specified fracture of right acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.492A	Other specified fracture of left acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.492B	Other specified fracture of left acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.499A	Other specified fracture of unspecified acetabulum, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.499B	Other specified fracture of unspecified acetabulum, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.501A	Unspecified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.501B	Unspecified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.502A	Unspecified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.502B	Unspecified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.509A	Unspecified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.509B	Unspecified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.511A	Fracture of superior rim of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.511B	Fracture of superior rim of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.512A	Fracture of superior rim of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.512B	Fracture of superior rim of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.519A	Fracture of superior rim of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.519B	Fracture of superior rim of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.591A	Other specified fracture of right pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.591B	Other specified fracture of right pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.592A	Other specified fracture of left pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.592B	Other specified fracture of left pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.599A	Other specified fracture of unspecified pubis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.599B	Other specified fracture of unspecified pubis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.601A	Unspecified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.601B	Unspecified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.602A	Unspecified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.602B	Unspecified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.609A	Unspecified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.609B	Unspecified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.611A	Displaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.611B	Displaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.612A	Displaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.612B	Displaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.613A	Displaced avulsion fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.613B	Displaced avulsion fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.614A	Nondisplaced avulsion fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.614B	Nondisplaced avulsion fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.615A	Nondisplaced avulsion fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.615B	Nondisplaced avulsion fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S32.616A	fracture	Diagnosis	ICD-10-CM
S32.616B	fracture	Diagnosis	ICD-10-CM
S32.691A	Other specified fracture of right ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.691B	Other specified fracture of right ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.692A	Other specified fracture of left ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.692B	Other specified fracture of left ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.699A	Other specified fracture of unspecified ischium, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.699B	Other specified fracture of unspecified ischium, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.810A	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.810B	Multiple fractures of pelvis with stable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.811A	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.811B	Multiple fractures of pelvis with unstable disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.82XA	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.82XB	Multiple fractures of pelvis without disruption of pelvic ring, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.89XA	Fracture of other parts of pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.89XB	Fracture of other parts of pelvis, initial encounter for open fracture	Diagnosis	ICD-10-CM
S32.9XXA	Fracture of unspecified parts of lumbosacral spine and pelvis, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S32.9XXB	fracture	Diagnosis	ICD-10-CM
S72.001A	Fracture of unspecified part of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.001B	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.001C	Fracture of unspecified part of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.002A	Fracture of unspecified part of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.002B	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.002C	Fracture of unspecified part of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.009A	fracture	Diagnosis	ICD-10-CM
S72.009B	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.009C	Fracture of unspecified part of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.011A	Unspecified intracapsular fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

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Code	Description	Code Category	Code Type
S72.011B	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.011C	Unspecified intracapsular fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.012A	Unspecified intracapsular fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.012B	I or II	Diagnosis	ICD-10-CM
S72.012C	Unspecified intracapsular fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.019A	fracture	Diagnosis	ICD-10-CM
S72.019B	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.019C	Unspecified intracapsular fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.021A	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.021B	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.021C	Displaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.022A	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.022B	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.022C	Displaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.023A	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.023B	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.023C	Displaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.024A	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.024B	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.024C	Nondisplaced fracture of epiphysis (separation) (upper) of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.025A	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.025B	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.025C	Nondisplaced fracture of epiphysis (separation) (upper) of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.026A	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.026B	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.026C	Nondisplaced fracture of epiphysis (separation) (upper) of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.031A	Displaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.031B	or II	Diagnosis	ICD-10-CM
S72.031C	Displaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.032A	Displaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.032B	II	Diagnosis	ICD-10-CM
S72.032C	Displaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.033A	fracture	Diagnosis	ICD-10-CM
S72.033B	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.033C	Displaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.034A	Nondisplaced midcervical fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.034B	type I or II	Diagnosis	ICD-10-CM
S72.034C	Nondisplaced midcervical fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.035A	Nondisplaced midcervical fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.035B	I or II	Diagnosis	ICD-10-CM
S72.035C	Nondisplaced midcervical fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.036A	fracture	Diagnosis	ICD-10-CM
S72.036B	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.036C	Nondisplaced midcervical fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.041A	Displaced fracture of base of neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.041B	Displaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.041C	Displaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.042A	Displaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.042B	I or II	Diagnosis	ICD-10-CM
S72.042C	Displaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.043A	fracture	Diagnosis	ICD-10-CM
S72.043B	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.043C	Displaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.044A	fracture	Diagnosis	ICD-10-CM
S72.044B	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.044C	Nondisplaced fracture of base of neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.045A	Nondisplaced fracture of base of neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.045B	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.045C	Nondisplaced fracture of base of neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.046A	fracture	Diagnosis	ICD-10-CM
S72.046B	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.046C	Nondisplaced fracture of base of neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.051A	Unspecified fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.051B	II	Diagnosis	ICD-10-CM
S72.051C	Unspecified fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.052A	Unspecified fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.052B	Unspecified fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.052C	Unspecified fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.059A	Unspecified fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.059B	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.059C	Unspecified fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.061A	Displaced articular fracture of head of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.061B	Displaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.061C	Displaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.062A	Displaced articular fracture of head of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.062B	Displaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.062C	Displaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.063A	fracture	Diagnosis	ICD-10-CM
S72.063B	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.063C	Displaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.064A	fracture	Diagnosis	ICD-10-CM
S72.064B	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.064C	Nondisplaced articular fracture of head of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.065A	fracture	Diagnosis	ICD-10-CM
S72.065B	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.065C	Nondisplaced articular fracture of head of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.066A	Nondisplaced articular fracture of head of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.066B	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.066C	Nondisplaced articular fracture of head of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.091A	Other fracture of head and neck of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.091B	I or II	Diagnosis	ICD-10-CM
S72.091C	Other fracture of head and neck of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.092A	Other fracture of head and neck of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.092B	or II	Diagnosis	ICD-10-CM
S72.092C	Other fracture of head and neck of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.099A	fracture	Diagnosis	ICD-10-CM
S72.099B	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.099C	Other fracture of head and neck of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.101A	Unspecified trochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.101B	type I or II	Diagnosis	ICD-10-CM
S72.101C	Unspecified trochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.102A	Unspecified trochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.102B	or II	Diagnosis	ICD-10-CM
S72.102C	Unspecified trochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.109A	fracture	Diagnosis	ICD-10-CM
S72.109B	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.109C	Unspecified trochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.111A	fracture	Diagnosis	ICD-10-CM
S72.111B	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.111C	Displaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.112A	fracture	Diagnosis	ICD-10-CM
S72.112B	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.112C	Displaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.113A	Displaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.113B	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.113C	Displaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.114A	fracture	Diagnosis	ICD-10-CM
S72.114B	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.114C	Nondisplaced fracture of greater trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.115A	fracture	Diagnosis	ICD-10-CM
S72.115B	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.115C	Nondisplaced fracture of greater trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.116A	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.116B	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.116C	Nondisplaced fracture of greater trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.121A	fracture	Diagnosis	ICD-10-CM
S72.121B	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.121C	Displaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.122A	fracture	Diagnosis	ICD-10-CM
S72.122B	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.122C	Displaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.123A	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.123B	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.123C	Displaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.124A	fracture	Diagnosis	ICD-10-CM
S72.124B	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.124C	Nondisplaced fracture of lesser trochanter of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.125A	fracture	Diagnosis	ICD-10-CM
S72.125B	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.125C	Nondisplaced fracture of lesser trochanter of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.126A	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.126B	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.126C	Nondisplaced fracture of lesser trochanter of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.131A	Displaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.131B	or II	Diagnosis	ICD-10-CM
S72.131C	Displaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.132A	Displaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.132B	II	Diagnosis	ICD-10-CM
S72.132C	Displaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.133A	fracture	Diagnosis	ICD-10-CM
S72.133B	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.133C	Displaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.134A	Nondisplaced apophyseal fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.134B	type I or II	Diagnosis	ICD-10-CM
S72.134C	Nondisplaced apophyseal fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.135A	Nondisplaced apophyseal fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.135B	I or II	Diagnosis	ICD-10-CM
S72.135C	Nondisplaced apophyseal fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.136A	fracture	Diagnosis	ICD-10-CM
S72.136B	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.136C	Nondisplaced apophyseal fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.141A	Displaced intertrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.141B	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.141C	Displaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.142A	Displaced intertrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.142B	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.142C	Displaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.143A	fracture	Diagnosis	ICD-10-CM
S72.143B	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.143C	Displaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.144A	fracture	Diagnosis	ICD-10-CM
S72.144B	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.144C	Nondisplaced intertrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.145A	fracture	Diagnosis	ICD-10-CM
S72.145B	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.145C	Nondisplaced intertrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.146A	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.146B	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.146C	Nondisplaced intertrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.21XA	Displaced subtrochanteric fracture of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.21XB	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.21XC	Displaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.22XA	Displaced subtrochanteric fracture of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S72.22XB	type I or II	Diagnosis	ICD-10-CM
S72.22XC	Displaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.23XA	fracture	Diagnosis	ICD-10-CM
S72.23XB	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.23XC	Displaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.24XA	fracture	Diagnosis	ICD-10-CM
S72.24XB	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.24XC	Nondisplaced subtrochanteric fracture of right femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.25XA	fracture	Diagnosis	ICD-10-CM
S72.25XB	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM
S72.25XC	Nondisplaced subtrochanteric fracture of left femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S72.26XA	fracture	Diagnosis	ICD-10-CM
S72.26XB	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type I or II	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
S72.26XC	Nondisplaced subtrochanteric fracture of unspecified femur, initial encounter for open fracture type IIIA, IIIB, or IIIC	Diagnosis	ICD-10-CM
S79.001A	fracture	Diagnosis	ICD-10-CM
S79.002A	fracture	Diagnosis	ICD-10-CM
S79.009A	Unspecified physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.011A	Salter-Harris Type I physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.012A	Salter-Harris Type I physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.019A	Salter-Harris Type I physeal fracture of upper end of unspecified femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.091A	Other physeal fracture of upper end of right femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.092A	Other physeal fracture of upper end of left femur, initial encounter for closed fracture	Diagnosis	ICD-10-CM
S79.099A	fracture	Diagnosis	ICD-10-CM

**Hyperlipidemia**

272.0	Pure hypercholesterolemia	Diagnosis	ICD-9-CM
272.1	Pure hyperglyceridemia	Diagnosis	ICD-9-CM
272.2	Mixed hyperlipidemia	Diagnosis	ICD-9-CM
272.3	Hyperchylomicronemia	Diagnosis	ICD-9-CM
272.4	Other and unspecified hyperlipidemia	Diagnosis	ICD-9-CM
E78.0	Pure hypercholesterolemia	Diagnosis	ICD-10-CM
E78.00	Pure hypercholesterolemia, unspecified	Diagnosis	ICD-10-CM
E78.01	Familial hypercholesterolemia	Diagnosis	ICD-10-CM
E78.1	Pure hyperglyceridemia	Diagnosis	ICD-10-CM
E78.2	Mixed hyperlipidemia	Diagnosis	ICD-10-CM
E78.3	Hyperchylomicronemia	Diagnosis	ICD-10-CM
E78.4	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.41	Elevated Lipoprotein(a)	Diagnosis	ICD-10-CM
E78.49	Other hyperlipidemia	Diagnosis	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	Diagnosis	ICD-10-CM

**Hypertension**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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

**Ischemic Heart Disease**

410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	Diagnosis	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	Diagnosis	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	Diagnosis	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	Diagnosis	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	Diagnosis	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	Diagnosis	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	Diagnosis	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	Diagnosis	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	Diagnosis	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	Diagnosis	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	Diagnosis	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	Diagnosis	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	Diagnosis	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	Diagnosis	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	Diagnosis	ICD-9-CM
411.0	Postmyocardial infarction syndrome	Diagnosis	ICD-9-CM
411.1	Intermediate coronary syndrome	Diagnosis	ICD-9-CM
411.81	Acute coronary occlusion without myocardial infarction	Diagnosis	ICD-9-CM
411.89	Other acute and subacute form of ischemic heart disease	Diagnosis	ICD-9-CM
412	Old myocardial infarction	Diagnosis	ICD-9-CM
413.0	Angina decubitus	Diagnosis	ICD-9-CM
413.1	Prinzmetal angina	Diagnosis	ICD-9-CM
413.9	Other and unspecified angina pectoris	Diagnosis	ICD-9-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	Diagnosis	ICD-9-CM
414.01	Coronary atherosclerosis of native coronary artery	Diagnosis	ICD-9-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	Diagnosis	ICD-9-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	Diagnosis	ICD-9-CM
414.04	Coronary atherosclerosis of artery bypass graft	Diagnosis	ICD-9-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	Diagnosis	ICD-9-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	Diagnosis	ICD-9-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	Diagnosis	ICD-9-CM
414.12	Dissection of coronary artery	Diagnosis	ICD-9-CM
414.2	Chronic total occlusion of coronary artery	Diagnosis	ICD-9-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-9-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	artery	Diagnosis	ICD-10-CM
I21.09	wall	Diagnosis	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	Diagnosis	ICD-10-CM
I21.19	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	infarction	Diagnosis	ICD-10-CM
I23.5	infarction	Diagnosis	ICD-10-CM
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I23.7	Postinfarction angina	Diagnosis	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	Diagnosis	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	Diagnosis	ICD-10-CM
I24.1	Dressler's syndrome	Diagnosis	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	Diagnosis	ICD-10-CM
I24.9	Acute ischemic heart disease, unspecified	Diagnosis	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	Diagnosis	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.111	documented spasm	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
I25.118	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	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	pectoris	Diagnosis	ICD-10-CM
I25.710	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	angina pectoris	Diagnosis	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	Diagnosis	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
I25.759	pectoris	Diagnosis	ICD-10-CM
I25.760	angina	Diagnosis	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	Diagnosis	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	Diagnosis	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	Diagnosis	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	Diagnosis	ICD-10-CM
I25.798	pectoris	Diagnosis	ICD-10-CM
I25.799	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	pectoris	Diagnosis	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	Diagnosis	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	Diagnosis	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	Diagnosis	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	Diagnosis	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	Diagnosis	ICD-10-CM

**Lung Cancer**

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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
V10.11	Personal history of malignant neoplasm of bronchus and lung	Diagnosis	ICD-9-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>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
<b>Prostate Cancer</b>			
185	Malignant neoplasm of prostate	Diagnosis	ICD-9-CM
233.4	Carcinoma in situ 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
V10.46	Personal history of malignant neoplasm of prostate	Diagnosis	ICD-9-CM
Z85.46	Personal history of malignant neoplasm of prostate	Diagnosis	ICD-10-CM
<b>Rheumatoid Arthritis or 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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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	sites	Diagnosis	ICD-9-CM
715.80	unspecified site	Diagnosis	ICD-9-CM
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 sites	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

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Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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 foot	Diagnosis	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	Diagnosis	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	Diagnosis	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	Diagnosis	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	Diagnosis	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	Diagnosis	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	Diagnosis	ICD-10-CM
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	Diagnosis	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	Diagnosis	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	Diagnosis	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	Diagnosis	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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	systems	Diagnosis	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
M05.629	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	systems	Diagnosis	ICD-10-CM
M05.672	systems	Diagnosis	ICD-10-CM
M05.679	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	involvement	Diagnosis	ICD-10-CM
M05.712	involvement	Diagnosis	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	Diagnosis	ICD-10-CM
M05.721	involvement	Diagnosis	ICD-10-CM
M05.722	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	involvement	Diagnosis	ICD-10-CM
M05.732	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	involvement	Diagnosis	ICD-10-CM
M05.742	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	involvement	Diagnosis	ICD-10-CM
M05.752	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	involvement	Diagnosis	ICD-10-CM
M05.762	involvement	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	involvement	Diagnosis	ICD-10-CM
M05.7A	Rheumatoid arthritis with rheumatoid factor of other specified site without organ or systems involvement	Diagnosis	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	Diagnosis	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	Diagnosis	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	Diagnosis	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	Diagnosis	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	Diagnosis	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	Diagnosis	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	Diagnosis	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	Diagnosis	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	Diagnosis	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	Diagnosis	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	Diagnosis	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	Diagnosis	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	Diagnosis	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	Diagnosis	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	Diagnosis	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	Diagnosis	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	Diagnosis	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	Diagnosis	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	Diagnosis	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	Diagnosis	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	Diagnosis	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	Diagnosis	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	Diagnosis	ICD-10-CM
M05.8A	Other rheumatoid arthritis with rheumatoid factor of other specified site	Diagnosis	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	Diagnosis	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	Diagnosis	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	Diagnosis	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	Diagnosis	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	Diagnosis	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
M06.0A	Rheumatoid arthritis without rheumatoid factor, other specified site	Diagnosis	ICD-10-CM
M06.1	Adult-onset Still's disease	Diagnosis	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	Diagnosis	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	Diagnosis	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	Diagnosis	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	Diagnosis	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	Diagnosis	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	Diagnosis	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	Diagnosis	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	Diagnosis	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	Diagnosis	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	Diagnosis	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	Diagnosis	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	Diagnosis	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	Diagnosis	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	Diagnosis	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	Diagnosis	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	Diagnosis	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	Diagnosis	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	Diagnosis	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	Diagnosis	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
M06.851	Other specified rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M06.869	Other specified rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M06.8A	Other specified rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	Diagnosis	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	Diagnosis	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	Diagnosis	ICD-10-CM
M08.0A	Unspecified juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	Diagnosis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	Diagnosis	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
M08.2A	Juvenile rheumatoid arthritis with systemic onset, other specified site	Diagnosis	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	Diagnosis	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	Diagnosis	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	Diagnosis	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	Diagnosis	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	Diagnosis	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	Diagnosis	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	Diagnosis	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	Diagnosis	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	Diagnosis	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	Diagnosis	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	Diagnosis	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	Diagnosis	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	Diagnosis	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	Diagnosis	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	Diagnosis	ICD-10-CM
M08.4A	Pauciarticular juvenile rheumatoid arthritis, other specified site	Diagnosis	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	Diagnosis	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	Diagnosis	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	Diagnosis	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	Diagnosis	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	Diagnosis	ICD-10-CM
M08.829	Other juvenile arthritis, unspecified elbow	Diagnosis	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	Diagnosis	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	Diagnosis	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	Diagnosis	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	Diagnosis	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	Diagnosis	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	Diagnosis	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
M08.941	Juvenile arthritis, unspecified, right hand	Diagnosis	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	Diagnosis	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	Diagnosis	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	Diagnosis	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	Diagnosis	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	Diagnosis	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	Diagnosis	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	Diagnosis	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	Diagnosis	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	Diagnosis	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	Diagnosis	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	Diagnosis	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	Diagnosis	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	Diagnosis	ICD-10-CM
M08.9A	Juvenile arthritis, unspecified, other specified site	Diagnosis	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	Diagnosis	ICD-10-CM
M15.1	Heberden's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	Diagnosis	ICD-10-CM
M15.3	Secondary multiple arthritis	Diagnosis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	Diagnosis	ICD-10-CM
M15.8	Other polyosteoarthritis	Diagnosis	ICD-10-CM
M15.9	Polyosteoarthritis, unspecified	Diagnosis	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	Diagnosis	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	Diagnosis	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	Diagnosis	ICD-10-CM
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
M17.2	Bilateral post-traumatic osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	Diagnosis	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	Diagnosis	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	Diagnosis	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	Diagnosis	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	Diagnosis	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	Diagnosis	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	Diagnosis	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	Diagnosis	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	Diagnosis	ICD-10-CM
M18.50	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
M19.09	Primary osteoarthritis, other specified site	Diagnosis	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	Diagnosis	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	Diagnosis	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	Diagnosis	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	Diagnosis	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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
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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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

**Stroke or Transient Ischemic Attack**

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	infarction	Diagnosis	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	Diagnosis	ICD-9-CM
434.00	Cerebral thrombosis without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	Diagnosis	ICD-9-CM
434.10	Cerebral embolism without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	Diagnosis	ICD-9-CM
434.90	Unspecified cerebral artery occlusion without mention of cerebral infarction	Diagnosis	ICD-9-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	Diagnosis	ICD-9-CM
435.0	Basilar artery syndrome	Diagnosis	ICD-9-CM
435.1	Vertebral artery syndrome	Diagnosis	ICD-9-CM
435.3	Vertebrobasilar artery syndrome	Diagnosis	ICD-9-CM
435.8	Other specified transient cerebral ischemias	Diagnosis	ICD-9-CM
435.9	Unspecified transient cerebral ischemia	Diagnosis	ICD-9-CM
436	Acute, but ill-defined, cerebrovascular disease	Diagnosis	ICD-9-CM
997.02	Iatrogenic cerebrovascular infarction or hemorrhage	Diagnosis	ICD-9-CM
G45.0	Vertebo-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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	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 artery	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	artery	Diagnosis	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	Diagnosis	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	Diagnosis	ICD-10-CM
I60.30	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
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	arteries	Diagnosis	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	Diagnosis	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	Diagnosis	ICD-10-CM
I63.213	arteries	Diagnosis	ICD-10-CM
I63.219	artery	Diagnosis	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	Diagnosis	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	Diagnosis	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	Diagnosis	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	Diagnosis	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid artery	Diagnosis	ICD-10-CM
I63.29	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 due to thrombosis of bilateral posterior cerebral arteries	Diagnosis	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	Diagnosis	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.343	Cerebral infarction due to thrombosis of bilateral cerebellar arteries	Diagnosis	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	Diagnosis	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	Diagnosis	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	Diagnosis	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	Diagnosis	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	Diagnosis	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	Diagnosis	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	Diagnosis	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	Diagnosis	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	Diagnosis	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	Diagnosis	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	Diagnosis	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	Diagnosis	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral 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	artery	Diagnosis	ICD-10-CM
I63.511	artery	Diagnosis	ICD-10-CM
I63.512	artery	Diagnosis	ICD-10-CM
I63.513	arteries	Diagnosis	ICD-10-CM
I63.519	cerebral artery	Diagnosis	ICD-10-CM
I63.521	artery	Diagnosis	ICD-10-CM
I63.522	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	artery	Diagnosis	ICD-10-CM
I63.532	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

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	Diagnosis	ICD-10-CM
I63.543	arteries	Diagnosis	ICD-10-CM
I63.549	artery	Diagnosis	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	Diagnosis	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	Diagnosis	ICD-10-CM
I63.8	Other cerebral infarction	Diagnosis	ICD-10-CM
I63.9	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>Obesity</b>			
E66.01	Morbid (severe) obesity due to excess calories	Diagnosis	ICD-10-CM
E66.09	Other obesity due to excess calories	Diagnosis	ICD-10-CM
E66.1	Drug-induced obesity	Diagnosis	ICD-10-CM
E66.2	Morbid (severe) obesity with alveolar hypoventilation	Diagnosis	ICD-10-CM
E66.8	Other obesity	Diagnosis	ICD-10-CM
E66.9	Obesity, unspecified	Diagnosis	ICD-10-CM
Z68.30	Body mass index [BMI] 30.0-30.9, adult	Diagnosis	ICD-10-CM
Z68.31	Body mass index [BMI] 31.0-31.9, adult	Diagnosis	ICD-10-CM
Z68.32	Body mass index [BMI] 32.0-32.9, adult	Diagnosis	ICD-10-CM
Z68.33	Body mass index [BMI] 33.0-33.9, adult	Diagnosis	ICD-10-CM
Z68.34	Body mass index [BMI] 34.0-34.9, adult	Diagnosis	ICD-10-CM

**Appendix C. List of International Classification of Diseases, Ninth Revision, Clinical Modification (ICD-9-CM) and International Classification of Diseases, Tenth Revision, Clinical Modification (ICD-10-CM) Codes Used to Define Characteristics in this Request**

Code	Description	Code Category	Code Type
Z68.35	Body mass index [BMI] 35.0-35.9, adult	Diagnosis	ICD-10-CM
Z68.36	Body mass index [BMI] 36.0-36.9, adult	Diagnosis	ICD-10-CM
Z68.37	Body mass index [BMI] 37.0-37.9, adult	Diagnosis	ICD-10-CM
Z68.38	Body mass index [BMI] 38.0-38.9, adult	Diagnosis	ICD-10-CM
Z68.39	Body mass index [BMI] 39.0-39.9, adult	Diagnosis	ICD-10-CM
Z68.41	Body mass index [BMI] 40.0-44.9, adult	Diagnosis	ICD-10-CM
Z68.42	Body mass index [BMI] 45.0-49.9, adult	Diagnosis	ICD-10-CM
Z68.43	Body mass index [BMI] 50.0-59.9, adult	Diagnosis	ICD-10-CM
Z68.44	Body mass index [BMI] 60.0-69.9, adult	Diagnosis	ICD-10-CM
Z68.45	Body mass index [BMI] 70 or greater, adult	Diagnosis	ICD-10-CM

## Appendix D. Technical Specifications for this Request

### Specifications for Type 5 Request: cder\_mpl1r\_wp264

This request executed the Cohort Identification and Descriptive Analysis (CIDA) tool version 11.0.0 to investigate the use of Glucagon-Like Peptide 1 Receptor Agonists (GLP-1 RAs) such as semaglutide, dulaglutide, lixisenatide, exenatide, liraglutide, and tirzepatide in the Sentinel Distributed Database (SDD).

**Query Period:** 10/01/2015 - 04/30/2023

**Coverage requirement:** Medical & Drug Coverage

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

**Post-index requirement:** 0 days

**Enrollment gap:** 45 days

**Age groups:** 18-21, 22-44, 45-64, 65-74, 75+ years

**Distribution of index-defining codes:** Indicate if distribution of index-defining codes and encounter types is required

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

**Freeze Data:** No

### Exposure

Scenario	Index Exposure	Cohort Definition	Incident Exposure Washout Period	Exclude Evidence of Days Supply if Exposure Washout Includes Dispensings
1	All GLP-1RA Users	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date
2	Semaglutide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date

## Appendix D. Technical Specifications for this Request

### Specifications for Type 5 Request: cder\_mpl1r\_wp264

Scenario	Index Exposure	Cohort definition	Exposure	
			Incident exposure washout period	Exclude evidence of days supply if exposure washout includes dispensings
3	Dulaglutide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date
4	Lixisenatide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date
5	Exenatide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date
6	Liraglutide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date
7	Tirzepatide	Include all valid exposure episodes during query period; only the first valid exposure episode's incidence is assessed using washout criteria	183 days	Washout lookback period should search for evidence of days supply or a dispensing date

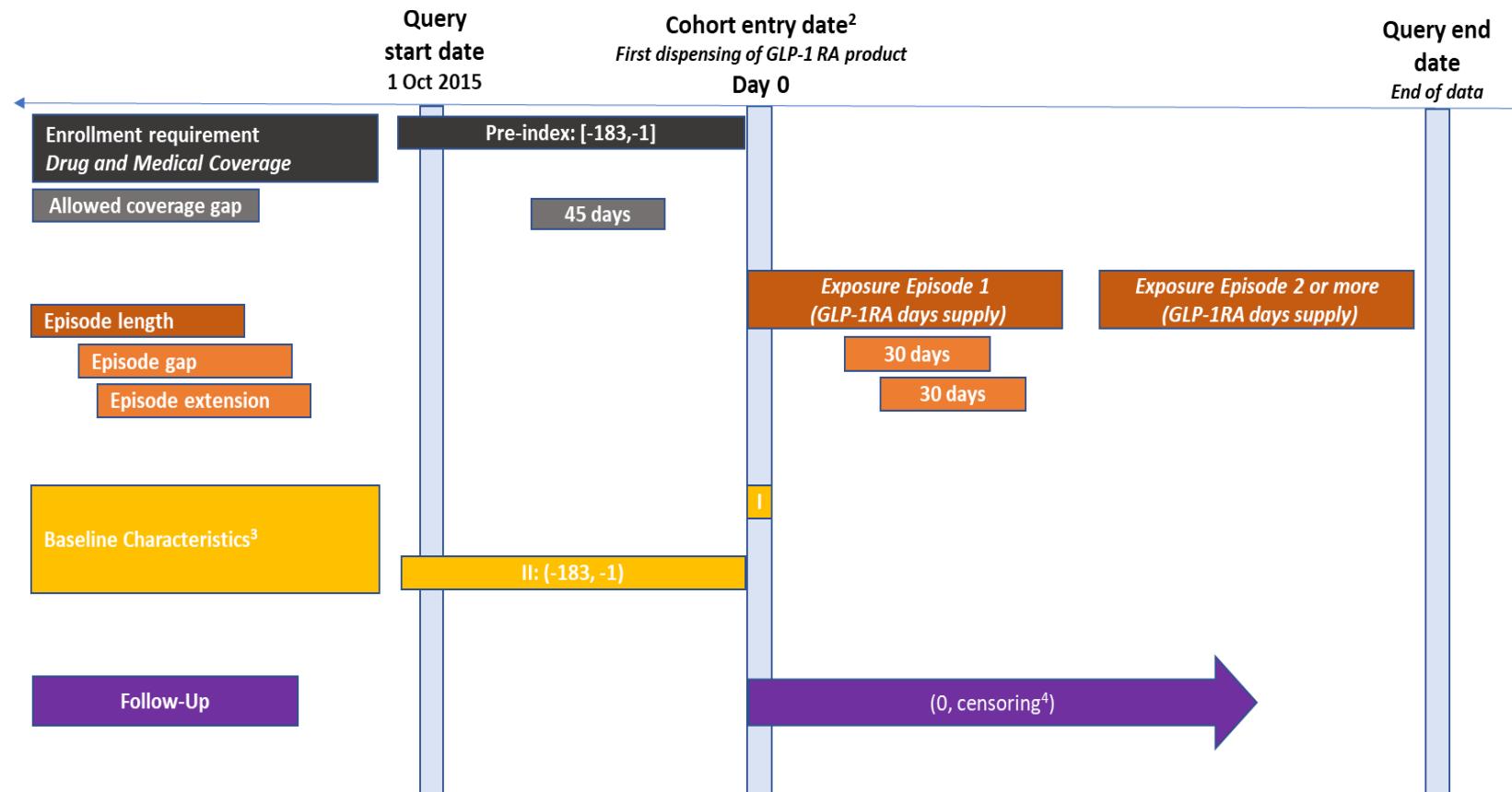
#### Appendix D. Technical Specifications for this Request

##### Specifications for Type 5 Request: cder\_mpl1r\_wp264

Scenario	Treatment episode gap	Treatment episode extension	Care setting	Create Baseline Censor treatment episode at evidence of:	
				Table?	
1	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
2	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
3	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
4	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
5	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
6	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;
7	30 days	30 days	Any care setting	Yes	*Death; *DP end date; *Query end date;

ICD-9, ICD-10, HCPCS, and CPT codes are provided by Optum360.  
NDC codes are checked against First Data Bank's FDB MedKnowledge®.

## Appendix E. Design Diagram for this Request



<sup>1</sup> Includes all valid exposure during the query period; only the first valid episode's incidence is assessed using the washout period.

<sup>2</sup> Seven scenarios defined on initiation of any GLP-1RA product, semaglutide, dulaglutide, lixisenatide, exenatide, liraglutide, or tirzepatide; Cohort entry date = first dispensing date for GLP-1 RA.

<sup>3</sup> Baseline characteristics:

Window I: Age, Sex, Race, Hispanic Ethnicity, Year

Window II: Chronic conditions warehouse (CCW): Acquired Hypothyroidism, Acute Myocardial Infarction, Alzheimer's Disease, Alzheimer's Disease, Related Disorders, or Senile Dementia, Anemia, Asthma, Atrial Fibrillation, Benign Prostatic Hyperplasia, Breast Cancer, Cataracts, Chronic Kidney Disease, Chronic Obstructive Pulmonary Disease, Colorectal Cancer, Depression, Diabetes, Endometrial Cancer, Glaucoma, Heart Failure, Hip / Pelvic Fracture, Hyperlipidemia, Hypertension, Ischemic Heart Disease, Lung Cancer, Osteoporosis, Prostate Cancer, Rheumatoid Arthritis / Osteoarthritis, Stroke / Transient Ischemic Attack, and Obesity

<sup>4</sup> Censoring: earliest of death, disenrollment, data partner data end date, query end date