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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.

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

## Overview for Request: cder\_mpl1p\_wp021

**Request ID:** cder\_mpl1p\_wp021\_nsdp\_v01

**Request Description:** The goal of this request was to assess the length of observation time for members with chronic conditions in the Sentinel Distributed Database (SDD) defined using the Centers for Medicare and Medicaid Services' (CMS) Chronic Conditions Data Warehouse (CCW) condition algorithms<sup>1</sup>.

**Sentinel Modular Program Tool Used:** Cohort Identification and Descriptive Analysis (CIDA) tool, version 5.4.3 with additional ad hoc programming

**Data Source:** Data from January 1, 2008 to June 30, 2018 from 17 Data Partners (DPs) contributing to the SDD were included in this report. This request was distributed to DPs on October 18, 2018. See Appendix A for a list of dates of available data for each DP.

**Study Design:** This request was designed to estimate counts of members with chronic condition events and assess available follow-up time until censoring. The number of qualifying patients with the events of interest was calculated overall and stratified by sex, age group, and calendar year.

**Events of Interest:** The events of interest were acute myocardial infarction, acquired hypothyroidism, Alzheimer's disease and related disorders, anemia, asthma, atrial fibrillation, benign prostatic hyperplasia, chronic kidney disease, chronic obstructive pulmonary disease and bronchiectasis, depression, diabetes, glaucoma, heart failure, hyperlipidemia, hypertension, ischemic heart disease, osteoporosis, rheumatoid arthritis or osteoarthritis, stroke or transient ischemic attack, breast cancer, colorectal cancer, prostate cancer, lung cancer, and endometrial cancer. Events were defined using International Classification of Diseases, Ninth and Tenth Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM) diagnosis codes. All diagnosis codes were obtained from the CMS CCW condition algorithms.<sup>1</sup> Separate event definitions were applied to each condition. Please see Appendix B for codes used to define events in this request.

**Cohort Eligibility Criteria:** Prevalence and incidence were assessed for each event of interest in this request. The following age groups were included in each cohort: <19, 19-64, 65+ years. Only the first valid event diagnosis during the query period was considered; no cohort re-entry was allowed in either cohort. Members included in all cohorts were required to be enrolled in health plans with medical and drug coverage.

**Prevalent Cohort:** Members included in the prevalent cohort were not required to be continuously enrolled in health plans prior to their first qualifying (index) event diagnosis.

**Incident Cohort:** Members included in the incident cohort with an Alzheimer's disease and related disorder event diagnosis were required to be continuously enrolled in health plans for at least 1,095 days prior to their index event diagnosis during which gaps in coverage of up to 45 days were allowed. Members included in the incident cohort with chronic kidney disease, diabetes, heart failure, ischemic heart disease, or rheumatoid arthritis/osteoarthritis event diagnoses were required to be continuously enrolled in health plans for at least 730 days prior to index event diagnosis during which gaps in coverage of up to 45 days were allowed.

**Sensitivity Analysis:** A sensitivity analysis was performed requiring all individuals in the incident cohort to be continuously enrolled in health plans for at least 365 days prior to their index event diagnosis during which gaps in coverage of up to 45 days were allowed.

Additionally, exclusion criteria for stroke and benign prostatic hyperplasia was required to occur during the same encounter as the event diagnosis for all cohorts. The same-encounter exclusion and diagnosis criteria was implemented using ad-hoc programming. Please see Appendix C for a list of codes used to define exclusions in this request.

**Follow-Up Time:** Follow-up began on the diagnosis date of the event of interest and continued until the first occurrence of any of the following: 1) disenrollment; 2) the end date of the data provided by each DP (see Appendix A); 3) death. Only the first valid event that occurred during the study period was included per patient. Follow-up time was assessed in 4 distinct categories: less than 1 year, 1-2 years, 3-4 years, or 5 or more years of available follow-up time.

**Please see Appendix D for the specifications of parameters used in the analyses in this request.**

**Limitations:** Algorithms used to define exposures and characteristics may not have been validated; thus, members may be misclassified. Therefore, data should be interpreted with this limitation in mind.

**Notes:** Please contact the Sentinel Operations Center (info@sentinelssystem.org) for questions and to provide comments/suggestions for future enhancements to this document.

<sup>1</sup>Centers for Medicare and Medicaid Services (CMS). (n.d.). Chronic Conditions Data Warehouse. Retrieved from <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 the Care Setting/PDX parameter.

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

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

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

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

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

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

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

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

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

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

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

**Episodes** - treatment episodes; length of episode is determined by days supplied in one dispensing or consecutive dispensings bridged by the episode gap.

**Episode Gap** - number of days allowed between two (or more) consecutive exposures (dispensings/procedures) to be considered the same treatment episode.

**Event Deduplication** - specifies how events are counted by the Modular Program (MP) algorithm: 0: Counts all occurrences of a health outcome of interest (HOI) during an exposure episode; 1: de-duplicates occurrences of the same HOI code and code type on the same day; 2: de-duplicates occurrences of the same HOI group on the same day (e.g., de-duplicates at the group level).

**Exposure Episode Length** - number of days after exposure initiation that is considered "exposed time."

**Exposure Extension Period** - number of days post treatment period in which the outcomes/events are counted for a treatment episode. Extensions are added after any episode gaps have been bridged.

**Lookback Period** - number of days wherein a member is required to have evidence of pre-existing condition (diagnosis/procedure/drug dispensing).

**Maximum Episode Duration** - truncates exposure episodes after a requester-specified number of exposed days. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Member-Years** - sum of all days of enrollment with medical and drug coverage in the query period preceded by an exposure washout period all divided by 365.25.

**Minimum Days Supplied** - specifies a minimum number of days in length of the days supplied for the episode to be considered.

**Minimum Episode Duration** - specifies a minimum number of days in length of the episode for it to be considered. Applied after any gaps are bridged and extension days added to the length of the exposure episode.

**Monitoring Period** - used to define time periods of interest for both sequential analysis and simple cohort characterization requests.

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

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

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

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

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

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

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

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

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

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

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

All terms listed above may not be used in this report.

**Table 1a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018**

Chronic Condition	Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
Acquired Hypothyroidism	15,903,795	193,375,692	4,346,656	27%	5,018,359	32%	3,204,167	20%	3,334,613	21%
Acute Myocardial Infarction	2,185,820	193,375,692	1,050,554	48%	628,868	29%	312,018	14%	194,380	9%
Alzheimer's Disease and Related Disorders	7,921,859	193,375,692	3,024,443	38%	2,707,945	34%	1,362,871	17%	826,600	10%
Anemia	29,433,365	193,375,692	8,997,567	31%	9,460,259	32%	5,703,218	19%	5,272,321	18%
Asthma	11,246,048	193,375,692	3,424,969	30%	3,706,334	33%	2,092,148	19%	2,022,597	18%
Atrial Fibrillation	8,511,249	193,375,692	2,872,749	34%	2,676,142	31%	1,596,119	19%	1,366,239	16%
Benign Prostatic Hyperplasia	7,380,118	193,116,727	2,011,620	27%	2,404,374	33%	1,557,536	21%	1,406,588	19%
Chronic Kidney Disease <sup>1</sup>	5,321,285	117,159,022	2,065,783	39%	1,809,556	34%	725,144	14%	720,802	14%
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis	13,147,318	193,375,692	4,066,455	31%	4,292,862	33%	2,565,079	20%	2,222,922	17%
Colorectal Cancer	1,353,268	193,375,692	456,314	34%	422,100	31%	242,512	18%	232,342	17%
Depression	28,216,021	193,375,692	9,486,236	34%	9,390,592	33%	4,840,156	17%	4,499,037	16%
Diabetes	22,513,411	193,375,692	6,139,376	27%	6,931,985	31%	4,409,449	20%	5,032,601	22%
Endometrial Cancer	412,572	193,375,692	130,261	32%	136,464	33%	79,005	19%	66,842	16%
Female/Male Breast Cancer	2,929,694	193,375,692	754,491	26%	907,521	31%	595,463	20%	672,219	23%
Glaucoma	12,150,228	193,375,692	2,889,813	24%	3,839,419	32%	2,561,444	21%	2,859,552	24%
Heart Failure	12,338,045	193,375,692	4,242,305	34%	4,012,267	33%	2,297,665	19%	1,785,808	14%
Hyperlipidemia	46,201,959	193,375,692	11,323,258	25%	13,982,827	30%	9,453,924	20%	11,441,950	25%
Hypertension	50,788,725	193,375,692	13,294,554	26%	15,209,793	30%	9,973,610	20%	12,310,768	24%
Ischemic Heart Disease	21,020,005	193,375,692	5,856,576	28%	6,459,023	31%	4,215,188	20%	4,489,218	21%
Lung Cancer	1,268,326	193,375,692	713,338	56%	337,504	27%	128,109	10%	89,375	7%
Osteoporosis	7,357,967	193,375,692	1,783,927	24%	2,295,331	31%	1,611,128	22%	1,667,581	23%
Prostate Cancer	2,366,141	193,375,692	599,279	25%	726,095	31%	497,613	21%	543,154	23%
Rheumatoid Arthritis/Osteoarthritis	26,957,694	193,375,692	7,126,049	26%	8,751,583	32%	5,696,640	21%	5,383,422	20%
Stroke/Transient Ischemic Attack	5,972,290	177,111,032	2,140,240	36%	1,920,024	32%	1,106,642	19%	805,384	13%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

**Table 1b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018**

Chronic Conditions	Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
Acquired Hypothyroidism	8,777,728	133,325,509	2,443,574	28%	3,090,741	35%	1,922,634	22%	1,320,779	15%
Acute Myocardial Infarction	1,674,974	137,731,850	817,560	49%	499,643	30%	239,890	14%	117,881	7%
Alzheimer's Disease and Related Disorders (1,095-day washout)	2,551,724	73,221,304	1,217,305	48%	974,743	38%	294,928	12%	64,748	3%
Alzheimer's Disease and Related Disorders (365-day washout)	5,062,588	136,215,292	2,044,109	40%	1,818,434	36%	873,114	17%	326,931	6%
Anemia	18,853,710	133,693,259	5,761,204	31%	6,619,267	35%	4,028,592	21%	2,444,647	13%
Asthma	7,044,405	136,004,468	2,082,610	30%	2,491,817	35%	1,409,873	20%	1,060,105	15%
Atrial Fibrillation	4,752,787	135,318,352	1,810,377	38%	1,627,572	34%	873,572	18%	441,266	9%
Benign Prostatic	5,046,542	136,510,448	1,456,353	29%	1,816,374	36%	1,084,559	21%	689,256	14%
Chronic Kidney Disease (730-day washout) <sup>1</sup>	2,573,095	57,935,132	923,716	36%	915,383	36%	369,029	14%	364,967	14%
Chronic Kidney Disease (365-day washout)	10,967,609	134,639,476	4,469,949	41%	3,811,044	35%	1,748,850	16%	937,766	9%
COPD and Bronchiectasis	7,984,188	134,963,094	2,554,983	32%	2,850,786	36%	1,650,504	21%	927,915	12%
Colorectal Cancer	819,564	137,521,378	293,720	36%	278,201	34%	155,328	19%	92,315	11%
Depression	16,727,082	133,104,171	5,387,227	32%	6,052,652	36%	3,244,629	19%	2,042,574	12%
Diabetes (730-day washout)	4,092,878	89,995,927	1,281,858	31%	1,542,439	38%	900,324	22%	368,257	9%
Diabetes (365-day washout)	7,232,269	126,838,990	2,138,111	30%	2,572,694	36%	1,493,538	21%	1,027,926	14%
Endometrial Cancer	269,683	137,738,961	88,569	33%	96,496	36%	53,312	20%	31,306	12%
Female/Male Breast Cancer	1,470,804	136,864,973	416,682	28%	525,225	36%	319,157	22%	209,740	14%
Glaucoma	7,281,876	135,238,689	1,848,040	25%	2,654,356	36%	1,659,963	23%	1,119,517	15%
Heart Failure (730-day washout)	5,369,127	98,398,851	2,089,462	39%	2,007,138	37%	1,043,279	19%	229,248	4%
Heart Failure (365-day washout)	8,037,699	135,807,258	2,859,730	36%	2,829,944	35%	1,591,472	20%	756,553	9%
Hyperlipidemia	22,921,549	122,673,702	6,063,186	26%	7,985,193	35%	4,974,617	22%	3,898,553	17%
Hypertension	20,353,832	115,895,347	5,647,470	28%	7,024,524	35%	4,289,641	21%	3,392,197	17%
Ischemic Heart Disease (730-day washout)	6,923,267	93,936,886	2,354,413	34%	2,606,446	38%	1,501,364	22%	461,044	7%
Ischemic Heart Disease (365-day washout)	11,935,154	132,622,261	3,600,812	30%	4,176,870	35%	2,612,041	22%	1,545,431	13%

**Table 1b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018**

Chronic Conditions	Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
Lung Cancer	766,966	137,548,779	459,439	60%	205,289	27%	71,353	9%	30,885	4%
Osteoporosis	5,144,460	136,900,763	1,345,023	26%	1,806,909	35%	1,217,106	24%	775,422	15%
Prostate Cancer	1,193,609	137,026,011	346,204	29%	425,954	36%	249,149	21%	172,302	14%
Rheumatoid Arthritis/Osteoarthritis (730-day washout)	10,888,934	92,953,477	3,286,715	30%	4,202,635	39%	2,491,391	23%	908,193	8%
Rheumatoid Arthritis/Osteoarthritis (365-day washout)	16,666,478	133,431,249	4,626,922	28%	6,059,964	36%	3,706,085	22%	2,273,507	14%
Stroke/Transient Ischemic Attack	4,130,189	122,024,656	1,545,671	37%	1,421,464	34%	780,030	19%	383,024	9%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)



**Table 2a. Descriptive Statistics of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018**

Chronic Conditions	Number of Members	Mean (days)	Standard Deviation (days)	Length of Follow-Up Time				
				Minimum (days)	Q1 (days)	Median (days)	Q3 (days)	Maximum (days)
Acquired Hypothyroidism	15,903,795	1,062.91	852.02	1	330	856	1,664	3,834
Acute Myocardial Infarction	2,185,820	658.34	715.76	1	74	398	1,031	3,833
Alzheimer's Disease and Related Disorders	7,921,859	773.84	700.97	1	202	564	1,184	3,833
Anemia	29,433,365	977.69	818.89	1	287	753	1,516	3,834
Asthma	11,246,048	991.21	855.96	1	291	736	1,503	3,834
Atrial Fibrillation	8,511,249	921.45	808.83	1	244	698	1,437	3,834
Benign Prostatic Hyperplasia	7,380,118	1,030.17	821.51	1	331	838	1,585	3,833
Chronic Kidney Disease <sup>1</sup>	5,321,285	838.39	856.37	1	207	543	1,191	3,834
Chronic Obstructive Pulmonary Disease (COPD) and Bronchiectasis	13,147,318	955.47	801.17	1	285	735	1,470	3,834
Colorectal Cancer	1,353,268	937.04	831.21	1	244	690	1,453	3,834
Depression	28,216,021	918.86	819.71	1	260	662	1,400	3,834
Diabetes	22,513,411	1,097.68	882.90	1	336	879	1,729	3,834
Endometrial Cancer	412,572	941.74	807.01	1	274	712	1,441	3,833
Female/Male Breast Cancer	2,929,694	1,118.35	882.88	1	355	916	1,752	3,833
Glaucoma	12,150,228	1,145.35	872.36	1	390	961	1,773	3,833
Heart Failure	12,338,045	879.65	772.09	1	234	667	1,373	3,834
Hyperlipidemia	46,201,959	1,158.51	892.18	1	376	969	1,817	3,834
Hypertension	50,788,725	1,136.81	899.66	1	348	930	1,799	3,834
Ischemic Heart Disease	21,020,005	1,065.04	856.87	1	326	861	1,682	3,834
Lung Cancer	1,268,326	557.42	661.43	1	84	292	777	3,833
Osteoporosis	7,357,967	1,108.76	833.64	1	382	952	1,743	3,833
Prostate Cancer	2,366,141	1,123.50	872.54	1	361	940	1,755	3,834
Rheumatoid Arthritis/Osteoarthritis	26,957,694	1,053.74	828.99	1	344	863	1,630	3,834
Stroke/Transient Ischemic Attack	5,972,290	850.79	764.21	1	208	640	1,334	3,834

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

**Table 2b. Descriptive Statistics of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018**

Chronic Conditions	Number of Members	Mean (days)	Standard Deviation (days)	Length of Follow-Up Time				
				Minimum (days)	Q1 (days)	Median (days)	Q3 (days)	Maximum (days)
Acquired Hypothyroidism	8,777,728	963.19	770.29	1	323	787	1,455	3,834
Acute Myocardial Infarction	1,674,974	623.41	677.72	1	71	385	975	3,833
Alzheimer's Disease and Related Disorders (1,095-day washout)	2,551,724	541.39	513.02	1	143	394	809	3,831
Alzheimer's Disease and Related Disorders (365-day washout)	5,062,588	690.59	622.29	1	180	508	1,057	3,831
Anemia	18,853,710	902.21	742.85	1	284	722	1,381	3,834
Asthma	7,044,405	950.22	801.06	1	302	735	1,418	3,833
Atrial Fibrillation	4,752,787	764.62	698.19	1	186	578	1,181	3,834
Benign Prostatic	5,046,542	926.86	749.02	1	309	751	1,403	3,833
Chronic Kidney Disease (730-day washout) <sup>1</sup>	2,573,095	853.01	824.77	1	226	584	1,246	3,834
Chronic Kidney Disease (365-day washout)	10,967,609	721.38	688.17	1	191	496	1,078	3,834
COPD and Bronchiectasis	7,984,188	863.82	722.56	1	271	687	1,328	3,833
Colorectal Cancer	819,564	820.29	733.78	1	214	620	1,268	3,833
Depression	16,727,082	870.90	748.14	1	270	665	1,310	3,834
Diabetes (730-day washout)	4,092,878	858.36	727.35	1	281	674	1,270	3,834
Diabetes (365-day washout)	7,232,269	931.27	770.39	1	300	737	1,404	3,834
Endometrial Cancer	269,683	852.34	729.64	1	257	660	1,297	3,825
Female/Male Breast Cancer	1,470,804	942.10	761.77	1	315	769	1,425	3,833
Glaucoma	7,281,876	990.93	766.81	1	359	826	1,483	3,833
Heart Failure (730-day washout)	5,369,127	696.94	625.23	1	190	541	1,061	3,834
Heart Failure (365-day washout)	8,037,699	790.64	686.10	1	218	620	1,228	3,834
Hyperlipidemia	22,921,549	1,011.57	806.57	1	343	823	1,525	3,834
Hypertension	20,353,832	995.67	813.49	1	325	795	1,504	3,834
Ischemic Heart Disease (730-day washout)	6,923,267	792.11	681.94	1	247	627	1,190	3,834
Ischemic Heart Disease (365-day washout)	11,935,154	905.88	740.22	1	288	735	1,395	3,834
Lung Cancer	766,966	472.01	566.01	1	69	249	664	3,819
Osteoporosis	5,144,460	977.01	748.23	1	346	831	1,494	3,833
Prostate Cancer	1,193,609	936.77	766.65	1	307	749	1,418	3,833
Rheumatoid Arthritis/Osteoarthritis (730-day washout)	10,888,934	860.35	710.89	1	297	685	1,270	3,833
Rheumatoid Arthritis/Osteoarthritis (365-day washout)	16,666,478	938.97	743.13	1	325	772	1,415	3,833
Stroke/Transient Ischemic Attack	4,130,189	770.33	693.74	1	192	590	1,195	3,834

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

**Table 3a. Summary of Follow-Up Time for Members with Prevalent Diagnoses with Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
Female	11,954,159	99,983,941	3,194,740	27%	3,715,678	31%	2,408,902	20%	2,634,839	22%
Male	3,949,294	93,379,869	1,151,809	29%	1,302,596	33%	795,229	20%	699,660	18%
Other	342	11,882	107	31%	85	25%	36	11%	114	33%
<b>Acute Myocardial Infarction</b>										
Female	1,049,741	99,983,941	518,789	49%	294,635	28%	147,881	14%	88,436	8%
Male	1,136,027	93,379,869	531,744	47%	334,216	29%	*****	*****	*****	*****
Other	52	11,882	21	40%	17	33%	*****	*****	*****	*****
<b>Alzheimer's Disease and Related Disorders</b>										
Female	5,054,874	99,983,941	1,830,075	36%	1,736,595	34%	914,667	18%	573,537	11%
Male	2,866,823	93,379,869	1,194,305	42%	971,300	34%	448,183	16%	253,035	9%
Other	162	11,882	63	39%	50	31%	21	13%	28	17%
<b>Anemia</b>										
Female	18,401,120	99,983,941	5,491,620	30%	5,875,605	32%	3,590,555	20%	3,443,340	19%
Male	11,031,424	93,379,869	3,505,709	32%	3,584,447	32%	2,112,534	19%	1,828,734	17%
Other	821	11,882	238	29%	207	25%	129	16%	247	30%
<b>Asthma</b>										
Female	7,020,040	99,983,941	2,088,603	30%	2,291,188	33%	1,329,455	19%	1,310,794	19%
Male	4,225,670	93,379,869	1,336,244	32%	1,415,060	33%	762,643	18%	711,723	17%
Other	338	11,882	122	36%	86	25%	50	15%	80	24%
<b>Atrial Fibrillation</b>										
Female	4,298,400	99,983,941	1,443,678	34%	1,328,851	31%	814,007	19%	711,864	17%
Male	4,212,677	93,379,869	1,429,018	34%	1,347,246	32%	782,084	19%	654,329	16%
Other	172	11,882	53	31%	45	26%	28	16%	46	27%

**Table 3a. Summary of Follow-Up Time for Members with Prevalent Diagnoses with Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Benign Prostatic Hyperplasia</b>										
Female	7,705	99,982,467	2,728	35%	2,550	33%	1,413	18%	1,014	13%
Male	7,372,221	93,122,385	2,008,858	27%	2,401,766	33%	1,556,086	21%	1,405,511	19%
Other	192	11,875	34	18%	58	30%	37	19%	63	33%
<b>Chronic Kidney Disease<sup>1</sup></b>										
Female	2,575,110	58,929,848	978,337	38%	871,490	34%	357,290	14%	367,993	14%
Male	2,745,766	58,220,945	1,087,317	40%	937,946	34%	367,788	13%	352,715	13%
Other	409	8,229	129	32%	120	29%	66	16%	94	23%
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
Female	7,336,228	99,983,941	2,176,044	30%	2,382,311	32%	1,464,422	20%	1,313,451	18%
Male	5,810,810	93,379,869	1,890,332	33%	1,910,485	33%	1,100,616	19%	909,377	16%
Other	280	11,882	79	28%	66	24%	41	15%	94	34%
<b>Colorectal Cancer</b>										
Female	716,970	99,983,941	234,111	33%	219,181	31%	131,535	18%	132,143	18%
Male	636,260	93,379,869	*****	*****	*****	*****	*****	*****	100,186	16%
Other	38	11,882	*****	*****	*****	*****	*****	*****	13	34%
<b>Depression</b>										
Female	18,693,387	99,983,941	6,098,346	33%	6,194,836	33%	3,272,236	18%	3,127,969	17%
Male	9,521,700	93,379,869	3,387,516	36%	3,195,515	34%	1,567,796	16%	1,370,873	14%
Other	934	11,882	374	40%	241	26%	124	13%	195	21%
<b>Diabetes</b>										
Female	11,704,768	99,983,941	3,064,845	26%	3,527,646	30%	2,323,107	20%	2,789,170	24%
Male	10,808,032	93,379,869	3,074,387	28%	3,404,217	31%	2,086,252	19%	2,243,176	21%
Other	611	11,882	144	24%	122	20%	90	15%	255	42%

**Table 3a. Summary of Follow-Up Time for Members with Prevalent Diagnoses with Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Endometrial Cancer</b>										
Female	412,006	99,983,941	130,013	32%	136,278	33%	78,927	19%	66,788	16%
Male	554	93,379,869	*****	*****	*****	*****	*****	*****	*****	*****
Other	12	11,882	*****	*****	*****	*****	*****	*****	*****	*****
<b>Female/Male Breast Cancer</b>										
Female	2,896,434	99,983,941	743,057	26%	896,635	31%	589,373	20%	667,369	23%
Male	33,197	93,379,869	11,420	34%	*****	*****	*****	*****	4,823	15%
Other	63	11,882	14	22%	*****	*****	*****	*****	27	43%
<b>Glaucoma</b>										
Female	7,237,047	99,983,941	1,655,552	23%	2,236,381	31%	1,537,601	21%	1,807,513	25%
Male	4,912,825	93,379,869	1,234,184	25%	1,602,958	33%	1,023,790	21%	1,051,893	21%
Other	356	11,882	77	22%	80	22%	53	15%	146	41%
<b>Heart Failure</b>										
Female	6,802,470	99,983,941	2,269,219	33%	2,195,704	32%	1,301,490	19%	1,036,057	15%
Male	5,535,280	93,379,869	1,972,990	36%	1,816,500	33%	996,128	18%	749,662	14%
Other	295	11,882	96	33%	63	21%	47	16%	89	30%
<b>Hyperlipidemia</b>										
Female	24,379,408	99,983,941	5,663,641	23%	7,175,133	29%	5,074,759	21%	6,465,875	27%
Male	21,821,299	93,379,869	5,659,362	26%	6,807,405	31%	4,378,984	20%	4,975,548	23%
Other	1,252	11,882	255	20%	289	23%	181	14%	527	42%
<b>Hypertension</b>										
Female	27,369,927	99,983,941	6,777,125	25%	7,956,062	29%	5,445,682	20%	7,191,058	26%
Male	23,417,445	93,379,869	6,517,096	28%	7,253,483	31%	4,527,757	19%	5,119,109	22%
Other	1,353	11,882	333	25%	248	18%	171	13%	601	44%

**Table 3a. Summary of Follow-Up Time for Members with Prevalent Diagnoses with Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Ischemic Heart Disease</b>										
Female	10,181,375	99,983,941	2,788,034	27%	3,093,189	30%	2,080,212	20%	2,219,940	22%
Male	10,838,107	93,379,869	3,068,414	28%	3,365,716	31%	2,134,889	20%	2,269,088	21%
Other	523	11,882	128	24%	118	23%	87	17%	190	36%
<b>Lung Cancer</b>										
Female	659,285	99,983,941	349,295	53%	181,979	28%	74,040	11%	53,971	8%
Male	609,005	93,379,869	364,018	60%	*****	*****	*****	*****	*****	*****
Other	36	11,882	25	69%	*****	*****	*****	*****	*****	*****
<b>Osteoporosis</b>										
Female	6,513,836	99,983,941	1,542,598	24%	2,012,044	31%	1,434,720	22%	1,524,474	23%
Male	844,021	93,379,869	241,299	29%	283,265	34%	176,389	21%	143,068	17%
Other	110	11,882	30	27%	22	20%	19	17%	39	35%
<b>Prostate Cancer</b>										
Female	4,021	99,983,941	1,401	35%	1,200	30%	807	20%	613	15%
Male	2,362,060	93,379,869	*****	*****	724,879	31%	*****	*****	542,513	23%
Other	60	11,882	*****	*****	16	27%	*****	*****	28	47%
<b>Rheumatoid Arthritis/Osteoarthritis</b>										
Female	16,813,409	99,983,941	4,255,534	25%	5,338,024	32%	3,608,066	21%	3,611,785	21%
Male	10,143,607	93,379,869	2,870,368	28%	3,413,381	34%	2,088,453	21%	1,771,405	17%
Other	678	11,882	147	22%	178	26%	121	18%	232	34%
<b>Stroke/Transient Ischemic Attack</b>										
Female	3,414,176	90,562,704	1,198,440	35%	1,089,328	32%	647,679	19%	478,729	14%
Male	2,557,928	86,536,940	941,747	37%	830,650	32%	458,920	18%	326,611	13%
Other	186	11,388	53	28%	46	25%	43	23%	44	24%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

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

**Table 3b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
Female	6,402,332	68,530,476	1,734,973	27%	2,233,895	35%	1,422,307	22%	1,011,157	16%
Male	2,375,187	64,789,924	708,543	30%	856,800	36%	500,291	21%	309,553	13%
Other	209	5,109	58	28%	46	22%	36	17%	69	33%
<b>Acute Myocardial Infarction</b>										
Female	816,631	72,054,545	410,967	50%	238,671	29%	115,615	14%	51,378	6%
Male	858,295	65,672,131	406,575	47%	260,955	30%	*****	*****	*****	*****
Other	48	5,174	18	38%	17	35%	*****	*****	*****	*****
<b>Alzheimer's Disease and Related Disorders (1,095-day washout)</b>										
Female	1,605,556	38,792,165	742,026	46%	627,980	39%	194,041	12%	41,509	3%
Male	946,047	34,426,673	475,231	50%	346,716	37%	*****	*****	*****	*****
Other	121	2,466	48	40%	47	39%	*****	*****	*****	*****
<b>Alzheimer's Disease and Related Disorders (365-day washout)</b>										
Female	3,206,220	71,015,196	1,239,114	39%	1,163,073	36%	583,814	18%	220,219	7%
Male	1,856,225	65,194,930	804,944	43%	655,315	35%	289,277	16%	106,689	6%
Other	143	5,166	51	36%	46	32%	23	16%	23	16%
<b>Anemia</b>										
Female	11,779,519	69,549,735	3,493,154	30%	4,121,104	35%	2,572,569	22%	1,592,692	14%
Male	7,073,582	64,138,402	2,267,900	32%	2,497,999	35%	1,455,893	21%	851,790	12%
Other	609	5,122	150	25%	164	27%	130	21%	165	27%
<b>Asthma</b>										
Female	4,389,191	70,920,338	1,274,281	29%	1,553,310	35%	902,474	21%	659,126	15%
Male	2,655,007	65,079,007	808,272	30%	938,454	35%	507,351	19%	400,930	15%
Other	207	5,123	57	28%	53	26%	48	23%	49	24%

**Table 3b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Atrial Fibrillation</b>										
Female	2,470,049	70,874,069	944,609	38%	837,580	34%	463,420	19%	224,440	9%
Male	2,282,602	64,439,128	865,728	38%	789,953	35%	410,119	18%	216,802	9%
Other	136	5,155	40	29%	39	29%	33	24%	24	18%
<b>Benign Prostatic Hyperplasia</b>										
Female	5,549	72,084,459	1,985	36%	1,884	34%	1,056	19%	624	11%
Male	5,040,830	64,420,830	1,454,340	29%	1,814,435	36%	1,083,466	21%	688,589	14%
Other	163	5,159	28	17%	55	34%	37	23%	43	26%
<b>Chronic Kidney Disease (730-day washout)<sup>1</sup></b>										
Female	1,279,005	29,579,563	446,904	35%	450,028	35%	188,646	15%	193,427	15%
Male	1,293,808	28,352,868	476,723	37%	465,261	36%	180,324	14%	171,500	13%
Other	282	2,701	89	32%	94	33%	59	21%	40	14%
<b>Chronic Kidney Disease (365-day washout)</b>										
Female	5,891,404	70,535,546	2,375,111	40%	2,035,487	35%	968,117	16%	512,689	9%
Male	5,075,873	64,098,806	2,094,737	41%	1,775,453	35%	780,668	15%	425,015	8%
Other	332	5,124	101	30%	104	31%	65	20%	62	19%
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
Female	4,515,039	70,520,597	1,391,918	31%	1,614,963	36%	964,505	21%	543,653	12%
Male	3,468,939	64,437,356	1,163,013	34%	1,235,762	36%	685,962	20%	384,202	11%
Other	210	5,141	52	25%	61	29%	37	18%	60	29%
<b>Colorectal Cancer</b>										
Female	445,370	71,944,445	156,192	35%	150,066	34%	87,257	20%	51,855	12%
Male	374,158	65,571,760	*****	*****	*****	*****	*****	*****	*****	*****
Other	36	5,173	*****	*****	*****	*****	*****	*****	*****	*****



**Table 3b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Depression</b>										
Female	11,025,234	68,847,603	3,428,644	31%	3,986,721	36%	2,200,542	20%	1,409,327	13%
Male	5,701,288	64,251,521	1,958,427	34%	2,065,773	36%	1,043,980	18%	633,108	11%
Other	560	5,047	156	28%	158	28%	107	19%	139	25%
<b>Diabetes (730-day washout)</b>										
Female	2,166,050	47,585,675	667,978	31%	820,711	38%	494,460	23%	182,901	8%
Male	1,926,646	42,407,225	613,842	32%	721,665	37%	405,806	21%	185,333	10%
Other	182	3,027	38	21%	63	35%	58	32%	23	13%
<b>Diabetes (365-day washout)</b>										
Female	3,742,879	66,344,883	1,079,020	29%	1,329,410	36%	798,664	21%	535,785	14%
Male	3,489,098	60,489,145	1,059,034	30%	1,243,198	36%	694,795	20%	492,071	14%
Other	292	4,962	57	20%	86	29%	79	27%	70	24%
<b>Endometrial Cancer</b>										
Female	269,304	72,022,392	88,419	33%	96,366	36%	53,258	20%	31,261	12%
Male	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
Other	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
<b>Female/Male Breast Cancer</b>										
Female	1,450,092	71,154,591	409,250	28%	517,975	36%	315,366	22%	207,501	14%
Male	20,673	65,705,227	7,421	36%	*****	*****	*****	*****	2,228	11%
Other	39	5,155	11	28%	*****	*****	*****	*****	11	28%
<b>Glaucoma</b>										
Female	4,348,277	70,561,000	1,072,950	25%	1,571,688	36%	1,018,313	23%	685,326	16%
Male	2,933,351	64,672,564	775,048	26%	1,082,605	37%	641,596	22%	434,102	15%
Other	248	5,125	42	17%	63	25%	54	22%	89	36%

**Table 3b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Heart Failure (730-day washout)</b>										
Female	3,037,543	51,927,546	1,161,212	38%	1,143,607	38%	613,057	20%	119,667	4%
Male	2,331,373	46,468,022	928,178	40%	863,471	37%	430,177	18%	109,547	5%
Other	211	3,283	72	34%	60	28%	45	21%	34	16%
<b>Heart Failure (365-day washout)</b>										
Female	4,511,024	71,024,922	1,566,901	35%	1,585,303	35%	926,009	21%	432,811	10%
Male	3,526,424	64,777,174	1,292,750	37%	1,244,581	35%	665,411	19%	323,682	9%
Other	251	5,162	79	31%	60	24%	52	21%	60	24%
<b>Hyperlipidemia</b>										
Female	12,249,876	64,171,277	3,130,591	26%	4,250,643	35%	2,758,679	23%	2,109,963	17%
Male	10,670,841	58,497,497	2,932,462	27%	3,734,327	35%	2,215,761	21%	1,788,291	17%
Other	832	4,928	133	16%	223	27%	177	21%	299	36%
<b>Hypertension</b>										
Female	10,659,340	59,790,123	2,852,397	27%	3,657,726	34%	2,322,098	22%	1,827,119	17%
Male	9,693,714	56,100,408	2,794,927	29%	3,366,640	35%	1,967,364	20%	1,564,783	16%
Other	778	4,816	146	19%	158	20%	179	23%	295	38%
<b>Ischemic Heart Disease (730-day washout)</b>										
Female	3,824,200	50,394,581	1,291,476	34%	1,446,718	38%	860,956	23%	225,050	6%
Male	3,098,785	43,539,108	1,062,865	34%	1,159,641	37%	640,334	21%	235,945	8%
Other	282	3,197	72	26%	87	31%	74	26%	49	17%
<b>Ischemic Heart Disease (365-day washout)</b>										
Female	6,261,360	70,052,663	1,863,749	30%	2,177,018	35%	1,417,060	23%	803,533	13%
Male	5,673,419	62,564,497	1,736,980	31%	1,999,756	35%	1,194,887	21%	741,796	13%
Other	375	5,101	83	22%	96	26%	94	25%	102	27%

**Table 3b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Sex**

Sex	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Lung Cancer</b>										
Female	399,658	71,949,087	227,539	57%	111,769	28%	42,080	11%	18,270	5%
Male	367,281	65,594,520	*****	*****	*****	*****	*****	*****	*****	*****
Other	27	5,172	*****	*****	*****	*****	*****	*****	*****	*****
<b>Osteoporosis</b>										
Female	4,535,000	71,266,286	1,160,757	26%	1,584,545	35%	1,085,033	24%	704,665	16%
Male	609,367	65,629,309	184,245	30%	222,340	36%	132,055	22%	70,727	12%
Other	93	5,168	21	23%	24	26%	18	19%	30	32%
<b>Prostate Cancer</b>										
Female	2,821	72,085,999	968	34%	867	31%	592	21%	394	14%
Male	1,190,748	64,934,849	*****	*****	425,071	36%	*****	*****	171,897	14%
Other	40	5,163	*****	*****	16	40%	*****	*****	11	28%
<b>Rheumatoid Arthritis/Osteoarthritis (730-day washout)</b>										
Female	6,563,080	47,952,592	1,934,406	29%	2,531,599	39%	1,553,645	24%	543,430	8%
Male	4,325,426	44,997,675	1,352,227	31%	1,670,898	39%	937,642	22%	364,659	8%
Other	428	3,210	82	19%	138	32%	104	24%	104	24%
<b>Rheumatoid Arthritis/Osteoarthritis (365-day washout)</b>										
Female	10,278,236	69,133,331	2,754,730	27%	3,706,942	36%	2,357,463	23%	1,459,101	14%
Male	6,387,731	64,292,797	1,872,097	29%	2,352,885	37%	1,348,505	21%	814,244	13%
Other	511	5,121	95	19%	137	27%	117	23%	162	32%
<b>Stroke/Transient Ischemic Attack</b>										
Female	2,400,400	62,920,915	882,878	37%	822,954	34%	467,441	19%	227,127	9%
Male	1,729,628	59,099,019	662,752	38%	598,465	35%	312,543	18%	155,868	9%
Other	161	4,722	41	25%	45	28%	46	29%	29	18%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

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

**Table 4a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
< 19 years	115,763	40,565,278	38,743	33%	40,024	35%	19,749	17%	17,247	15%
19-64 years	6,731,659	125,067,840	2,183,137	32%	2,238,560	33%	1,158,854	17%	1,151,108	17%
65+ years	9,056,373	43,003,662	2,124,776	23%	2,739,775	30%	2,025,564	22%	2,166,258	24%
<b>Acute Myocardial Infarction</b>										
< 19 years	307	40,565,278	144	47%	88	29%	46	15%	29	9%
19-64 years	521,648	125,107,325	213,233	41%	170,206	33%	80,403	15%	57,806	11%
65+ years	1,663,865	43,566,011	837,177	50%	458,574	28%	231,569	14%	136,545	8%
<b>Alzheimer's Disease and Related Disorders</b>										
< 19 years	20,512	40,565,278	8,145	40%	7,757	38%	2,511	12%	2,099	10%
19-64 years	746,369	125,102,868	274,813	37%	241,078	32%	124,686	17%	105,792	14%
65+ years	7,154,978	43,508,573	2,741,485	38%	2,459,110	34%	1,235,674	17%	718,709	10%
<b>Anemia</b>										
< 19 years	1,048,645	40,565,278	363,228	35%	361,702	34%	169,313	16%	154,402	15%
19-64 years	11,768,968	124,914,042	3,990,079	34%	3,905,821	33%	1,995,305	17%	1,877,763	16%
65+ years	16,615,752	42,617,556	4,644,260	28%	5,192,736	31%	3,538,600	21%	3,240,156	20%
<b>Asthma</b>										
< 19 years	2,117,437	40,565,278	678,888	32%	710,126	34%	350,589	17%	377,834	18%
19-64 years	5,391,434	124,811,251	1,765,762	33%	1,791,848	33%	926,055	17%	907,769	17%
65+ years	3,737,177	43,252,124	980,319	26%	1,204,360	32%	815,504	22%	736,994	20%
<b>Atrial Fibrillation</b>										
< 19 years	2,733	40,565,278	829	30%	865	32%	485	18%	554	20%
19-64 years	1,312,068	125,106,191	465,323	35%	442,085	34%	221,047	17%	183,613	14%
65+ years	7,196,448	43,394,790	2,406,597	33%	2,233,192	31%	1,374,587	19%	1,182,072	16%

**Table 4a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Benign Prostatic Hyperplasia</b>										
< 19 years	341	40,565,179	99	29%	112	33%	62	18%	68	20%
19-64 years	1,799,371	125,011,955	565,428	31%	623,434	35%	328,623	18%	281,886	16%
65+ years	5,580,406	43,110,415	1,446,093	26%	1,780,828	32%	1,228,851	22%	1,124,634	20%
<b>Chronic Kidney Disease<sup>1</sup></b>										
< 19 years	140,725	30,347,732	53,540	38%	49,632	35%	18,863	13%	18,690	13%
19-64 years	2,450,679	83,464,660	1,058,505	43%	875,449	36%	275,381	11%	241,344	10%
65+ years	2,729,881	11,593,370	953,738	35%	884,475	32%	430,900	16%	460,768	17%
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
< 19 years	248,397	40,565,278	74,036	30%	82,930	33%	43,888	18%	47,543	19%
19-64 years	4,231,868	125,073,139	1,321,590	31%	1,399,021	33%	779,382	18%	731,875	17%
65+ years	8,667,053	43,060,776	2,670,829	31%	2,810,911	32%	1,741,809	20%	1,443,504	17%
<b>Colorectal Cancer</b>										
< 19 years	610	40,565,278	186	30%	228	37%	113	19%	83	14%
19-64 years	325,684	125,107,286	119,568	37%	112,637	35%	49,926	15%	43,553	13%
65+ years	1,026,974	43,582,696	336,560	33%	309,235	30%	192,473	19%	188,706	18%
<b>Depression</b>										
< 19 years	1,498,825	40,565,278	547,703	37%	546,807	36%	222,976	15%	181,339	12%
19-64 years	16,726,765	124,572,561	5,964,228	36%	5,535,551	33%	2,595,740	16%	2,631,246	16%
65+ years	9,990,431	42,616,513	2,974,305	30%	3,308,234	33%	2,021,440	20%	1,686,452	17%
<b>Diabetes</b>										
< 19 years	128,297	40,565,278	41,142	32%	42,700	33%	21,290	17%	23,165	18%
19-64 years	9,534,569	125,066,685	3,044,378	32%	3,096,315	32%	1,617,716	17%	1,776,160	19%
65+ years	12,850,545	42,374,442	3,053,856	24%	3,792,970	30%	2,770,443	22%	3,233,276	25%

**Table 4a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Endometrial Cancer</b>										
< 19 years	52	40,565,278	17	33%	18	35%	*****	*****	*****	*****
19-64 years	129,781	125,107,434	43,687	34%	44,774	34%	*****	*****	*****	*****
65+ years	282,739	43,610,450	86,557	31%	91,672	32%	56,773	20%	47,737	17%
<b>Female/Male Breast Cancer</b>										
< 19 years	522	40,565,278	169	32%	171	33%	97	19%	85	16%
19-64 years	967,260	125,107,292	299,935	31%	332,679	34%	166,992	17%	167,654	17%
65+ years	1,961,912	43,491,638	454,387	23%	574,671	29%	428,374	22%	504,480	26%
<b>Glaucoma</b>										
< 19 years	141,912	40,565,278	46,112	32%	49,743	35%	24,791	17%	21,266	15%
19-64 years	4,093,560	125,069,013	1,238,675	30%	1,388,446	34%	737,722	18%	728,717	18%
65+ years	7,914,756	43,077,916	1,605,026	20%	2,401,230	30%	1,798,931	23%	2,109,569	27%
<b>Heart Failure</b>										
< 19 years	35,495	40,565,278	12,076	34%	11,625	33%	6,081	17%	5,713	16%
19-64 years	2,714,704	125,100,753	910,314	34%	895,294	33%	486,839	18%	422,257	16%
65+ years	9,587,846	43,211,177	3,319,915	35%	3,105,348	32%	1,804,745	19%	1,357,838	14%
<b>Hyperlipidemia</b>										
< 19 years	122,905	40,565,278	38,078	31%	43,820	36%	22,091	18%	18,916	15%
19-64 years	20,416,770	125,066,843	6,100,783	30%	6,718,785	33%	3,651,899	18%	3,945,303	19%
65+ years	25,662,284	41,218,980	5,184,397	20%	7,220,222	28%	5,779,934	23%	7,477,731	29%
<b>Hypertension</b>										
< 19 years	110,804	40,565,278	36,553	33%	38,305	35%	18,938	17%	17,008	15%
19-64 years	21,791,148	125,065,745	6,982,424	32%	7,093,437	33%	3,690,253	17%	4,025,034	18%
65+ years	28,886,773	41,068,209	6,275,577	22%	8,078,051	28%	6,264,419	22%	8,268,726	29%

**Table 4a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Ischemic Heart Disease</b>										
< 19 years	22,380	40,565,278	7,198	32%	7,532	34%	3,867	17%	3,783	17%
19-64 years	6,075,533	125,099,267	1,930,585	32%	2,003,541	33%	1,080,763	18%	1,060,644	17%
65+ years	14,922,092	42,638,962	3,918,793	26%	4,447,950	30%	3,130,558	21%	3,424,791	23%
<b>Lung Cancer</b>										
< 19 years	824	40,565,278	347	42%	269	33%	96	12%	112	14%
19-64 years	279,308	125,107,267	154,721	55%	79,648	29%	26,387	9%	18,552	7%
65+ years	988,194	43,594,144	558,270	56%	257,587	26%	101,626	10%	70,711	7%
<b>Osteoporosis</b>										
< 19 years	4,456	40,565,278	1,345	30%	1,448	32%	853	19%	810	18%
19-64 years	1,332,616	125,105,960	369,669	28%	441,088	33%	261,144	20%	260,715	20%
65+ years	6,020,895	43,364,833	1,412,913	23%	1,852,795	31%	1,349,131	22%	1,406,056	23%
<b>Prostate Cancer</b>										
< 19 years	228	40,565,278	86	38%	66	29%	34	15%	42	18%
19-64 years	398,615	125,107,400	124,222	31%	137,423	34%	70,419	18%	66,551	17%
65+ years	1,967,298	43,528,709	474,971	24%	588,606	30%	427,160	22%	476,561	24%
<b>Rheumatoid Arthritis/Osteoarthritis</b>										
< 19 years	65,434	40,565,278	20,579	31%	22,910	35%	11,322	17%	10,623	16%
19-64 years	10,118,992	125,082,847	3,151,844	31%	3,450,674	34%	1,843,388	18%	1,673,086	17%
65+ years	16,773,268	42,416,700	3,953,626	24%	5,277,999	31%	3,841,930	23%	3,699,713	22%
<b>Stroke/Transient Ischemic Attack</b>										
< 19 years	19,744	38,774,643	7,929	40%	6,442	33%	2,819	14%	2,554	13%
19-64 years	1,376,649	117,669,431	489,373	36%	451,758	33%	239,006	17%	196,512	14%
65+ years	4,575,897	34,464,709	1,642,938	36%	1,461,824	32%	864,817	19%	606,318	13%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

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

**Table 4b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
< 19 years	64,490	26,478,565	19,587	30%	22,461	35%	11,600	18%	10,842	17%
19-64 years	3,580,423	80,836,770	1,086,933	30%	1,252,393	35%	683,180	19%	557,917	16%
65+ years	5,132,815	33,544,664	1,337,054	26%	1,815,887	35%	1,227,854	24%	752,020	15%
<b>Acute Myocardial Infarction</b>										
< 19 years	188	26,503,553	80	43%	59	31%	25	13%	24	13%
19-64 years	369,747	82,588,699	148,390	40%	124,051	34%	59,142	16%	38,164	10%
65+ years	1,305,039	36,658,725	669,090	51%	375,533	29%	180,723	14%	79,693	6%
<b>Alzheimer's Disease and Related Disorders (1,095-day washout)</b>										
< 19 years	7,889	12,581,509	2,854	36%	3,064	39%	1,022	13%	949	12%
19-64 years	253,589	41,568,273	113,081	45%	98,926	39%	31,685	12%	9,897	4%
65+ years	2,290,246	23,489,315	1,101,370	48%	872,753	38%	262,221	11%	53,902	2%
<b>Alzheimer's Disease and Related Disorders (365-day washout)</b>										
< 19 years	14,489	26,502,023	5,399	37%	5,561	38%	1,872	13%	1,657	11%
19-64 years	500,545	82,525,400	190,736	38%	173,111	35%	90,845	18%	45,853	9%
65+ years	4,547,554	35,161,917	1,847,974	41%	1,639,762	36%	780,397	17%	279,421	6%
<b>Anemia</b>										
< 19 years	597,586	26,404,665	186,308	31%	207,294	35%	104,425	17%	99,559	17%
19-64 years	7,056,264	80,954,841	2,254,459	32%	2,463,338	35%	1,345,056	19%	993,411	14%
65+ years	11,199,860	33,534,567	3,320,437	30%	3,948,635	35%	2,579,111	23%	1,351,677	12%
<b>Asthma</b>										
< 19 years	1,270,782	26,162,854	366,894	29%	429,218	34%	223,154	18%	251,516	20%
19-64 years	3,261,980	81,496,250	998,916	31%	1,148,254	35%	620,603	19%	494,207	15%
65+ years	2,511,643	35,885,660	716,800	29%	914,345	36%	566,116	23%	314,382	13%



**Table 4b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Atrial Fibrillation</b>										
< 19 years	1,855	26,503,234	475	26%	579	31%	368	20%	433	23%
19-64 years	720,408	82,307,257	256,395	36%	253,654	35%	127,223	18%	83,136	12%
65+ years	4,030,524	34,394,571	1,553,507	39%	1,373,339	34%	745,981	19%	357,697	9%
<b>Benign Prostatic Hyperplasia</b>										
< 19 years	252	26,503,450	70	28%	87	35%	51	20%	44	17%
19-64 years	1,224,808	82,326,038	374,270	31%	440,541	36%	233,932	19%	176,065	14%
65+ years	3,821,482	35,475,486	1,082,013	28%	1,375,746	36%	850,576	22%	513,147	13%
<b>Chronic Kidney Disease (730-day washout)<sup>1</sup></b>										
< 19 years	41,026	14,396,117	13,057	32%	16,320	40%	5,617	14%	6,032	15%
19-64 years	1,065,847	40,399,331	407,280	38%	411,789	39%	127,481	12%	119,297	11%
65+ years	1,466,222	7,417,172	503,379	34%	487,274	33%	235,931	16%	239,638	16%
<b>Chronic Kidney Disease (365-day washout)</b>										
< 19 years	74,904	26,472,697	25,716	34%	29,609	40%	9,845	13%	9,734	13%
19-64 years	2,885,644	81,603,952	1,166,353	40%	1,061,282	37%	402,079	14%	255,930	9%
65+ years	8,007,061	34,180,645	3,277,880	41%	2,720,153	34%	1,336,926	17%	672,102	8%
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
< 19 years	162,778	26,484,837	44,024	27%	54,081	33%	30,316	19%	34,357	21%
19-64 years	2,500,194	81,752,353	765,866	31%	892,874	36%	514,200	21%	327,254	13%
65+ years	5,321,216	34,325,065	1,745,093	33%	1,903,831	36%	1,105,988	21%	566,304	11%
<b>Colorectal Cancer</b>										
< 19 years	362	26,503,494	91	25%	137	38%	75	21%	59	16%
19-64 years	162,163	82,529,200	56,982	35%	58,094	36%	27,352	17%	19,735	12%
65+ years	657,039	36,521,576	236,647	36%	219,970	33%	127,901	19%	72,521	11%

**Table 4b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Depression</b>										
< 19 years	914,890	26,302,807	305,025	33%	340,081	37%	146,560	16%	123,224	13%
19-64 years	8,934,669	79,145,965	2,923,757	33%	3,188,948	36%	1,622,517	18%	1,199,447	13%
65+ years	6,877,523	34,590,141	2,158,445	31%	2,523,623	37%	1,475,552	21%	719,903	10%
<b>Diabetes (730-day washout)</b>										
< 19 years	30,243	18,203,880	7,646	25%	9,667	32%	5,929	20%	7,001	23%
19-64 years	1,791,991	54,343,096	546,252	30%	660,461	37%	361,454	20%	223,824	12%
65+ years	2,270,644	22,717,166	727,960	32%	872,311	38%	532,941	23%	137,432	6%
<b>Diabetes (365-day washout)</b>										
< 19 years	42,667	26,449,389	11,614	27%	13,998	33%	7,933	19%	9,122	21%
19-64 years	3,206,725	78,482,940	989,537	31%	1,131,795	35%	601,259	19%	484,134	15%
65+ years	3,982,877	28,998,755	1,136,960	29%	1,426,901	36%	884,346	22%	534,670	13%
<b>Endometrial Cancer</b>										
< 19 years	37	26,503,568	12	32%	14	38%	*****	*****	*****	*****
19-64 years	76,307	82,588,798	24,403	32%	27,350	36%	*****	*****	*****	*****
65+ years	193,339	36,698,794	64,154	33%	69,132	36%	39,211	20%	20,842	11%
<b>Female/Male Breast Cancer</b>										
< 19 years	312	26,503,474	89	29%	103	33%	61	20%	59	19%
19-64 years	399,583	82,265,153	117,579	29%	144,536	36%	74,586	19%	62,882	16%
65+ years	1,070,909	36,059,722	299,014	28%	380,586	36%	244,510	23%	146,799	14%
<b>Glaucoma</b>										
< 19 years	95,491	26,490,553	28,638	30%	34,133	36%	17,250	18%	15,470	16%
19-64 years	2,543,841	81,985,802	742,080	29%	902,377	35%	493,834	19%	405,550	16%
65+ years	4,642,544	34,391,248	1,077,322	23%	1,717,846	37%	1,148,879	25%	698,497	15%

**Table 4b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Heart Failure (730-day washout)</b>										
< 19 years	11,117	18,245,778	2,874	26%	3,746	34%	2,269	20%	2,228	20%
19-64 years	1,012,807	57,908,936	350,499	35%	384,709	38%	206,978	20%	70,621	7%
65+ years	4,345,203	28,052,661	1,736,089	40%	1,618,683	37%	834,032	19%	156,399	4%
<b>Heart Failure (365-day washout)</b>										
< 19 years	16,892	26,499,867	4,800	28%	5,692	34%	3,308	20%	3,092	18%
19-64 years	1,608,728	82,169,802	530,500	33%	570,263	35%	325,046	20%	182,919	11%
65+ years	6,412,079	34,899,872	2,324,430	36%	2,253,989	35%	1,263,118	20%	570,542	9%
<b>Hyperlipidemia</b>										
< 19 years	86,667	26,491,901	24,679	28%	31,257	36%	16,300	19%	14,431	17%
19-64 years	10,805,312	77,248,284	3,096,590	29%	3,734,132	35%	2,086,022	19%	1,888,568	17%
65+ years	12,029,570	25,063,025	2,941,917	24%	4,219,804	35%	2,872,295	24%	1,995,554	17%
<b>Hypertension</b>										
< 19 years	66,081	26,487,365	19,790	30%	23,172	35%	11,925	18%	11,194	17%
19-64 years	9,855,959	75,310,124	2,990,853	30%	3,410,968	35%	1,818,186	18%	1,635,952	17%
65+ years	10,431,792	20,123,649	2,636,827	25%	3,590,384	34%	2,459,530	24%	1,745,051	17%
<b>Ischemic Heart Disease (730-day washout)</b>										
< 19 years	10,207	18,246,376	2,649	26%	3,403	33%	2,063	20%	2,092	20%
19-64 years	1,948,881	56,830,748	622,109	32%	724,197	37%	397,837	20%	204,738	11%
65+ years	4,964,179	24,349,591	1,729,655	35%	1,878,846	38%	1,101,464	22%	254,214	5%
<b>Ischemic Heart Disease (365-day washout)</b>										
< 19 years	14,584	26,501,102	4,105	28%	4,927	34%	2,759	19%	2,793	19%
19-64 years	3,312,325	81,368,139	1,029,306	31%	1,162,468	35%	658,880	20%	461,671	14%
65+ years	8,608,245	32,114,303	2,567,401	30%	3,009,475	35%	1,950,402	23%	1,080,967	13%

**Table 4b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Age Group**

Age	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Lung Cancer</b>										
< 19 years	498	26,503,467	184	37%	158	32%	66	13%	90	18%
19-64 years	146,172	82,552,172	83,319	57%	42,092	29%	13,614	9%	7,147	5%
65+ years	620,296	36,535,858	375,936	61%	163,039	26%	57,673	9%	23,648	4%
<b>Osteoporosis</b>										
< 19 years	2,777	26,502,989	787	28%	911	33%	564	20%	515	19%
19-64 years	896,563	82,438,482	245,712	27%	314,504	35%	191,738	21%	144,609	16%
65+ years	4,245,120	35,816,094	1,098,524	26%	1,491,494	35%	1,024,804	24%	630,298	15%
<b>Prostate Cancer</b>										
< 19 years	139	26,503,527	45	32%	41	29%	23	17%	30	22%
19-64 years	196,892	82,497,393	58,923	30%	70,173	36%	36,119	18%	31,677	16%
65+ years	996,578	36,013,936	287,236	29%	355,740	36%	213,007	21%	140,595	14%
<b>Rheumatoid Arthritis/Osteoarthritis (730-day washout)</b>										
< 19 years	28,093	18,236,509	7,579	27%	9,977	36%	5,287	19%	5,250	19%
19-64 years	3,977,548	55,725,898	1,205,660	30%	1,498,532	38%	801,588	20%	471,768	12%
65+ years	6,883,293	24,211,920	2,073,476	30%	2,694,126	39%	1,684,516	24%	431,175	6%
<b>Rheumatoid Arthritis/Osteoarthritis (365-day washout)</b>										
< 19 years	38,436	26,492,987	11,185	29%	13,677	36%	6,945	18%	6,629	17%
19-64 years	5,908,655	80,935,864	1,792,610	30%	2,147,393	36%	1,154,651	20%	814,001	14%
65+ years	10,719,387	33,152,067	2,823,127	26%	3,898,894	36%	2,544,489	24%	1,452,877	14%
<b>Stroke/Transient Ischemic Attack</b>										
< 19 years	7,280	24,865,671	2,505	34%	2,474	34%	1,174	16%	1,127	15%
19-64 years	863,591	75,990,299	305,501	35%	300,373	35%	161,276	19%	96,441	11%
65+ years	3,259,318	27,785,418	1,237,665	38%	1,118,617	34%	617,580	19%	285,456	9%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

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

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
2008	1,410,782	54,229,304	328,078	23%	400,345	28%	200,475	14%	481,884	34%
2009	781,204	50,901,418	208,935	27%	223,903	29%	114,936	15%	233,430	30%
2010	3,119,036	66,776,948	469,205	15%	604,485	19%	453,160	15%	1,592,186	51%
2011	1,799,918	63,620,789	315,719	18%	385,175	21%	251,597	14%	847,427	47%
2012	1,576,788	64,362,113	293,027	19%	352,750	22%	765,912	49%	165,099	10%
2013	1,865,255	68,841,061	348,023	19%	389,737	21%	1,112,908	60%	14,587	1%
2014	1,605,635	71,265,785	331,608	21%	991,775	62%	282,252	18%	0	0%
2015	1,519,347	72,657,650	301,615	20%	1,194,805	79%	22,927	2%	0	0%
2016	1,535,255	74,953,992	1,104,028	72%	431,227	28%	0	0%	0	0%
2017	634,380	51,469,034	590,223	93%	44,157	7%	0	0%	0	0%
2018	56,195	13,378,564	56,195	100%	0	0%	0	0%	0	0%
<b>Acute Myocardial Infarction</b>										
2008	72,091	54,229,304	26,742	37%	18,401	26%	8,956	12%	17,992	25%
2009	66,453	52,034,823	24,965	38%	16,323	25%	8,439	13%	16,726	25%
2010	271,614	68,265,089	111,774	41%	54,766	20%	33,878	12%	71,196	26%
2011	260,125	67,448,276	104,371	40%	53,655	21%	32,146	12%	69,953	27%
2012	265,229	69,105,561	105,329	40%	55,203	21%	87,716	33%	16,981	6%
2013	280,326	74,232,497	111,087	40%	56,908	20%	110,799	40%	1,532	1%
2014	280,155	77,464,920	111,300	40%	141,467	50%	27,388	10%	0	0%
2015	291,451	79,330,027	112,024	38%	176,731	61%	2,696	1%	0	0%
2016	305,019	82,051,770	254,639	83%	50,380	17%	0	0%	0	0%
2017	85,054	54,012,129	80,020	94%	5,034	6%	0	0%	0	0%
2018	8,303	14,436,143	8,303	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Alzheimer's Disease and Related Disorders</b>										
2008	271,026	54,229,304	84,947	31%	89,447	33%	42,527	16%	54,105	20%
2009	140,137	51,878,692	46,905	33%	41,665	30%	21,916	16%	29,651	21%
2010	1,897,235	68,096,738	518,116	27%	561,545	30%	351,767	19%	465,807	25%
2011	910,056	66,000,843	255,667	28%	247,843	27%	162,071	18%	244,475	27%
2012	830,691	67,432,527	241,280	29%	229,146	28%	330,822	40%	29,443	4%
2013	922,174	72,450,253	269,177	29%	257,470	28%	392,408	43%	3,119	0%
2014	823,969	75,536,120	255,493	31%	513,470	62%	55,006	7%	0	0%
2015	890,358	77,379,068	263,143	30%	620,861	70%	6,354	1%	0	0%
2016	1,009,530	80,028,619	881,751	87%	127,779	13%	0	0%	0	0%
2017	202,481	53,780,688	183,762	91%	18,719	9%	0	0%	0	0%
2018	24,202	14,246,380	24,202	100%	0	0%	0	0%	0	0%
<b>Anemia</b>										
2008	2,079,566	54,229,304	582,367	28%	623,103	30%	285,018	14%	589,078	28%
2009	1,436,504	50,406,157	429,201	30%	413,126	29%	203,674	14%	390,503	27%
2010	5,934,959	65,937,103	1,141,242	19%	1,307,031	22%	938,539	16%	2,548,147	43%
2011	3,422,766	60,683,008	727,797	21%	780,978	23%	496,368	15%	1,417,623	41%
2012	3,126,338	60,631,420	679,304	22%	727,352	23%	1,420,201	45%	299,481	10%
2013	3,354,426	64,447,100	750,286	22%	737,579	22%	1,839,072	55%	27,489	1%
2014	3,015,627	66,374,557	710,589	24%	1,827,181	61%	477,857	16%	0	0%
2015	2,895,668	67,389,643	670,187	23%	2,182,992	75%	42,489	1%	0	0%
2016	2,910,477	69,342,940	2,134,428	73%	776,049	27%	0	0%	0	0%
2017	1,146,220	49,632,109	1,061,352	93%	84,868	7%	0	0%	0	0%
2018	110,814	12,593,020	110,814	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Asthma</b>										
2008	1,222,149	54,229,304	308,086	25%	350,781	29%	163,728	13%	399,554	33%
2009	808,022	51,067,807	228,599	28%	232,503	29%	111,539	14%	235,381	29%
2010	1,614,021	66,896,250	298,146	18%	346,214	21%	241,831	15%	727,830	45%
2011	1,209,419	65,105,504	253,875	21%	284,757	24%	171,783	14%	499,004	41%
2012	1,130,579	66,233,886	242,957	21%	277,457	25%	462,145	41%	148,020	13%
2013	1,224,182	70,910,569	265,601	22%	277,472	23%	668,301	55%	12,808	1%
2014	1,154,109	73,692,969	264,651	23%	637,493	55%	251,965	22%	0	0%
2015	1,141,700	75,217,152	255,999	22%	864,845	76%	20,856	2%	0	0%
2016	1,121,841	77,592,080	723,882	65%	397,959	35%	0	0%	0	0%
2017	572,100	51,587,071	535,247	94%	36,853	6%	0	0%	0	0%
2018	47,926	13,737,892	47,926	100%	0	0%	0	0%	0	0%
<b>Atrial Fibrillation</b>										
2008	474,491	54,229,304	113,102	24%	132,406	28%	72,651	15%	156,332	33%
2009	207,039	51,699,603	60,283	29%	55,329	27%	30,254	15%	61,173	30%
2010	1,868,788	67,881,894	403,837	22%	419,065	22%	299,628	16%	746,258	40%
2011	916,518	65,752,557	243,061	27%	205,752	22%	134,746	15%	332,959	36%
2012	890,785	67,110,417	238,295	27%	197,504	22%	392,720	44%	62,266	7%
2013	1,073,483	72,005,957	275,956	26%	236,132	22%	554,144	52%	7,251	1%
2014	930,061	74,899,276	257,347	28%	572,667	62%	100,047	11%	0	0%
2015	931,078	76,597,774	248,107	27%	671,042	72%	11,929	1%	0	0%
2016	934,988	79,166,952	773,518	83%	161,470	17%	0	0%	0	0%
2017	252,301	53,406,754	227,526	90%	24,775	10%	0	0%	0	0%
2018	31,717	14,071,403	31,717	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Benign Prostatic Hyperplasia</b>										
2008	444,025	54,166,243	89,469	20%	117,455	26%	64,882	15%	172,219	39%
2009	300,985	51,652,678	71,435	24%	79,904	27%	44,208	15%	105,438	35%
2010	1,153,301	67,655,331	166,791	14%	216,475	19%	169,631	15%	600,404	52%
2011	897,080	66,079,612	145,771	16%	181,228	20%	124,965	14%	445,116	50%
2012	798,598	67,265,705	134,793	17%	164,797	21%	422,451	53%	76,557	10%
2013	952,375	72,045,093	164,175	17%	185,989	20%	595,357	63%	6,854	1%
2014	831,484	74,853,578	150,319	18%	556,266	67%	124,899	15%	0	0%
2015	834,189	76,447,705	141,853	17%	681,193	82%	11,143	1%	0	0%
2016	861,449	78,904,582	661,560	77%	199,889	23%	0	0%	0	0%
2017	280,155	53,081,687	258,977	92%	21,178	8%	0	0%	0	0%
2018	26,477	13,949,741	26,477	100%	0	0%	0	0%	0	0%
<b>Chronic Kidney Disease<sup>1</sup></b>										
2008	650,849	41,738,971	162,377	25%	165,352	25%	88,910	14%	234,210	36%
2009	375,213	39,106,362	108,976	29%	90,804	24%	51,402	14%	124,031	33%
2010	366,108	37,964,438	102,971	28%	89,579	24%	53,535	15%	120,023	33%
2011	368,130	37,544,568	104,483	28%	94,446	26%	50,680	14%	118,521	32%
2012	377,692	36,738,819	106,918	28%	93,778	25%	63,434	17%	113,562	30%
2013	437,147	39,137,009	121,692	28%	98,507	23%	206,493	47%	10,455	2%
2014	464,373	40,898,177	137,628	30%	131,374	28%	195,371	42%	0	0%
2015	608,071	42,271,059	166,433	27%	426,319	70%	15,319	3%	0	0%
2016	937,970	44,147,083	351,675	37%	586,295	63%	0	0%	0	0%
2017	693,831	40,551,228	660,729	95%	33,102	5%	0	0%	0	0%
2018	41,901	5,897,654	41,901	100%	0	0%	0	0%	0	0%



**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
2008	835,964	54,229,304	219,958	26%	248,041	30%	119,674	14%	248,291	30%
2009	478,089	51,408,534	140,553	29%	132,873	28%	67,478	14%	137,185	29%
2010	2,723,840	67,454,950	562,884	21%	631,432	23%	454,942	17%	1,074,582	39%
2011	1,597,663	64,658,133	343,985	22%	365,143	23%	245,301	15%	643,234	40%
2012	1,402,211	65,570,733	315,392	22%	326,122	23%	653,517	47%	107,180	8%
2013	1,533,354	70,204,614	346,401	23%	347,893	23%	826,610	54%	12,450	1%
2014	1,356,979	72,912,499	322,600	24%	856,714	63%	177,665	13%	0	0%
2015	1,374,614	74,470,460	309,993	23%	1,044,729	76%	19,892	1%	0	0%
2016	1,373,812	76,873,641	1,071,830	78%	301,982	22%	0	0%	0	0%
2017	422,007	52,641,816	384,074	91%	37,933	9%	0	0%	0	0%
2018	48,785	13,674,478	48,785	100%	0	0%	0	0%	0	0%
<b>Colorectal Cancer</b>										
2008	102,443	54,229,304	26,587	26%	29,175	28%	13,627	13%	33,054	32%
2009	47,235	52,005,081	14,130	30%	13,090	28%	6,378	14%	13,637	29%
2010	263,975	68,251,578	58,155	22%	56,635	21%	37,202	14%	111,983	42%
2011	166,580	67,397,796	42,726	26%	38,221	23%	23,351	14%	62,282	37%
2012	147,183	69,093,460	39,953	27%	34,495	23%	62,256	42%	10,479	7%
2013	163,918	74,272,326	44,033	27%	37,150	23%	81,828	50%	907	1%
2014	143,601	77,543,673	41,773	29%	85,542	60%	16,286	11%	0	0%
2015	137,778	79,460,454	38,474	28%	97,720	71%	1,584	1%	0	0%
2016	135,207	82,238,768	108,388	80%	26,819	20%	0	0%	0	0%
2017	41,090	54,095,072	37,837	92%	3,253	8%	0	0%	0	0%
2018	4,258	14,484,629	4,258	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Depression</b>										
2008	2,731,702	54,229,304	798,524	29%	833,685	31%	358,140	13%	741,353	27%
2009	1,593,708	49,903,948	508,060	32%	482,642	30%	218,488	14%	384,518	24%
2010	4,496,240	65,448,636	875,861	19%	988,669	22%	682,238	15%	1,949,472	43%
2011	2,923,922	61,520,747	684,103	23%	725,296	25%	419,041	14%	1,095,482	37%
2012	2,779,200	61,818,625	659,412	24%	712,065	26%	1,109,256	40%	298,467	11%
2013	2,929,633	65,786,716	712,123	24%	705,591	24%	1,482,174	51%	29,745	1%
2014	2,867,623	67,936,050	738,613	26%	1,607,644	56%	521,366	18%	0	0%
2015	3,017,413	68,920,009	768,442	25%	2,199,518	73%	49,453	2%	0	0%
2016	3,144,758	70,611,691	2,120,994	67%	1,023,764	33%	0	0%	0	0%
2017	1,577,273	48,567,305	1,465,555	93%	111,718	7%	0	0%	0	0%
2018	154,549	12,459,217	154,549	100%	0	0%	0	0%	0	0%
<b>Diabetes</b>										
2008	2,551,515	54,229,304	592,382	23%	733,432	29%	357,936	14%	867,765	34%
2009	852,352	49,974,417	247,717	29%	251,375	29%	121,351	14%	231,909	27%
2010	5,545,434	66,008,587	806,584	15%	1,092,289	20%	872,332	16%	2,774,229	50%
2011	2,091,802	60,845,448	401,947	19%	464,212	22%	299,921	14%	925,722	44%
2012	1,976,437	61,691,869	390,640	20%	447,510	23%	928,341	47%	209,946	11%
2013	2,438,975	66,168,177	471,879	19%	515,219	21%	1,428,847	59%	23,030	1%
2014	2,058,950	68,436,475	458,218	22%	1,238,027	60%	362,705	18%	0	0%
2015	2,020,261	69,815,526	435,742	22%	1,546,503	77%	38,016	2%	0	0%
2016	2,020,597	72,058,511	1,456,594	72%	564,003	28%	0	0%	0	0%
2017	864,436	50,712,004	785,021	91%	79,415	9%	0	0%	0	0%
2018	92,652	12,854,152	92,652	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Endometrial Cancer</b>										
2008	25,172	54,229,304	5,852	23%	6,928	28%	3,369	13%	9,023	36%
2009	13,823	52,066,438	3,581	26%	3,807	28%	1,959	14%	4,476	32%
2010	56,906	68,324,204	10,395	18%	11,169	20%	7,556	13%	27,786	49%
2011	48,285	67,627,556	10,070	21%	10,479	22%	6,660	14%	21,076	44%
2012	46,957	69,379,261	9,829	21%	10,406	22%	22,620	48%	4,102	9%
2013	52,496	74,590,912	11,182	21%	11,146	21%	29,789	57%	379	1%
2014	49,440	77,898,662	11,146	23%	31,802	64%	6,492	13%	0	0%
2015	49,578	79,831,038	10,386	21%	38,632	78%	560	1%	0	0%
2016	52,441	82,620,502	41,468	79%	10,973	21%	0	0%	0	0%
2017	15,948	54,192,218	14,826	93%	1,122	7%	0	0%	0	0%
2018	1,526	14,536,811	1,526	100%	0	0%	0	0%	0	0%
<b>Female/Male Breast Cancer</b>										
2008	322,329	54,229,304	65,473	20%	88,798	28%	46,377	14%	121,681	38%
2009	112,523	51,814,464	27,571	25%	31,962	28%	17,069	15%	35,921	32%
2010	602,182	68,038,916	79,468	13%	106,353	18%	80,894	13%	335,467	56%
2011	306,332	66,895,676	54,442	18%	64,461	21%	41,904	14%	145,525	48%
2012	285,812	68,507,001	50,657	18%	60,595	21%	143,971	50%	30,589	11%
2013	343,380	73,607,080	60,910	18%	66,873	19%	212,561	62%	3,036	1%
2014	290,663	76,770,555	56,478	19%	186,077	64%	48,108	17%	0	0%
2015	277,009	78,621,120	49,182	18%	223,248	81%	4,579	2%	0	0%
2016	275,986	81,332,861	205,195	74%	70,791	26%	0	0%	0	0%
2017	103,177	53,781,575	94,814	92%	8,363	8%	0	0%	0	0%
2018	10,301	14,358,184	10,301	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Glaucoma</b>										
2008	1,103,914	54,229,304	219,257	20%	300,186	27%	160,786	15%	423,685	38%
2009	531,868	51,140,623	129,732	24%	146,220	27%	79,116	15%	176,800	33%
2010	2,622,537	67,143,379	284,591	11%	454,978	17%	378,728	14%	1,504,240	57%
2011	1,188,262	64,274,003	173,923	15%	246,014	21%	169,244	14%	599,081	50%
2012	1,156,626	65,364,539	171,026	15%	241,986	21%	602,148	52%	141,466	12%
2013	1,423,465	69,999,261	216,584	15%	273,335	19%	919,266	65%	14,280	1%
2014	1,239,636	72,564,287	203,578	16%	808,408	65%	227,650	18%	0	0%
2015	1,210,619	74,008,407	182,876	15%	1,003,237	83%	24,506	2%	0	0%
2016	1,177,168	76,320,529	853,727	73%	323,441	27%	0	0%	0	0%
2017	449,074	52,112,327	407,460	91%	41,614	9%	0	0%	0	0%
2018	47,059	13,580,945	47,059	100%	0	0%	0	0%	0	0%
<b>Heart Failure</b>										
2008	609,907	54,229,304	175,654	29%	185,202	30%	88,473	15%	160,578	26%
2009	332,084	51,607,138	106,780	32%	90,576	27%	47,612	14%	87,116	26%
2010	2,801,616	67,739,776	688,226	25%	699,951	25%	478,178	17%	935,261	33%
2011	1,486,210	64,937,491	376,758	25%	351,834	24%	237,472	16%	520,146	35%
2012	1,329,859	66,007,807	351,105	26%	316,457	24%	587,771	44%	74,526	6%
2013	1,456,024	70,761,256	388,144	27%	344,308	24%	715,391	49%	8,181	1%
2014	1,324,265	73,583,771	371,438	28%	824,703	62%	128,124	10%	0	0%
2015	1,315,363	75,219,110	352,514	27%	948,205	72%	14,644	1%	0	0%
2016	1,291,645	77,737,978	1,072,578	83%	219,067	17%	0	0%	0	0%
2017	346,714	53,174,629	314,750	91%	31,964	9%	0	0%	0	0%
2018	44,358	13,884,251	44,358	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Hyperlipidemia</b>										
2008	5,294,534	54,229,304	1,152,259	22%	1,480,316	28%	750,377	14%	1,911,582	36%
2009	2,640,623	47,588,691	684,793	26%	748,538	28%	386,734	15%	820,558	31%
2010	10,163,443	62,595,756	1,246,762	12%	1,768,372	17%	1,434,446	14%	5,713,863	56%
2011	5,006,924	53,674,150	832,794	17%	1,058,100	21%	690,038	14%	2,425,992	48%
2012	4,311,952	52,690,519	752,908	17%	941,218	22%	2,093,000	49%	524,826	12%
2013	5,179,756	55,961,062	900,067	17%	1,036,699	20%	3,197,861	62%	45,129	1%
2014	4,192,743	56,835,569	826,257	20%	2,534,419	60%	832,067	20%	0	0%
2015	3,949,713	57,517,117	738,613	19%	3,141,699	80%	69,401	2%	0	0%
2016	3,820,181	59,127,217	2,655,029	70%	1,165,152	30%	0	0%	0	0%
2017	1,505,476	45,621,466	1,397,162	93%	108,314	7%	0	0%	0	0%
2018	136,614	10,936,802	136,614	100%	0	0%	0	0%	0	0%
<b>Hypertension</b>										
2008	6,055,369	54,229,304	1,370,808	23%	1,697,014	28%	847,031	14%	2,140,516	35%
2009	2,553,359	47,006,362	694,511	27%	729,823	29%	369,083	14%	759,942	30%
2010	12,660,435	62,249,641	1,772,279	14%	2,383,447	19%	1,889,851	15%	6,614,858	52%
2011	4,846,666	51,327,197	885,989	18%	1,051,326	22%	665,612	14%	2,243,739	46%
2012	4,352,406	50,929,881	829,358	19%	967,610	22%	2,052,199	47%	503,239	12%
2013	5,397,205	54,543,627	1,006,779	19%	1,108,851	21%	3,233,101	60%	48,474	1%
2014	4,362,566	55,576,177	938,255	22%	2,584,330	59%	839,981	19%	0	0%
2015	4,193,920	56,434,462	869,180	21%	3,247,988	77%	76,752	2%	0	0%
2016	4,264,486	58,146,415	2,980,032	70%	1,284,454	30%	0	0%	0	0%
2017	1,914,774	45,480,885	1,759,824	92%	154,950	8%	0	0%	0	0%
2018	187,539	10,673,749	187,539	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Ischemic Heart Disease</b>										
2008	1,733,652	54,229,304	410,844	24%	497,902	29%	253,322	15%	571,584	33%
2009	770,887	50,655,094	217,705	28%	216,847	28%	111,257	14%	225,078	29%
2010	5,229,636	66,613,267	854,303	16%	1,055,533	20%	819,315	16%	2,500,485	48%
2011	2,281,632	61,702,542	454,558	20%	493,998	22%	336,638	15%	996,438	44%
2012	2,060,094	62,332,622	419,465	20%	445,958	22%	1,019,169	49%	175,502	9%
2013	2,358,087	66,730,577	474,527	20%	492,921	21%	1,370,508	58%	20,131	1%
2014	1,990,436	69,066,438	439,462	22%	1,278,563	64%	272,411	14%	0	0%
2015	1,921,860	70,480,129	404,297	21%	1,484,995	77%	32,568	2%	0	0%
2016	1,955,726	72,800,562	1,529,496	78%	426,230	22%	0	0%	0	0%
2017	639,906	51,682,262	573,830	90%	66,076	10%	0	0%	0	0%
2018	78,089	13,135,260	78,089	100%	0	0%	0	0%	0	0%
<b>Lung Cancer</b>										
2008	70,954	54,229,304	33,946	48%	19,550	28%	6,735	9%	10,723	15%
2009	37,533	52,042,572	20,781	55%	9,303	25%	3,061	8%	4,388	12%
2010	224,712	68,301,586	100,984	45%	53,295	24%	24,259	11%	46,174	21%
2011	140,954	67,518,701	72,680	52%	32,118	23%	12,717	9%	23,439	17%
2012	141,293	69,267,149	73,936	52%	32,284	23%	30,845	22%	4,228	3%
2013	160,323	74,478,442	81,755	51%	36,305	23%	41,840	26%	423	0%
2014	149,064	77,779,299	78,374	53%	62,884	42%	7,806	5%	0	0%
2015	149,922	79,713,853	76,964	51%	72,112	48%	846	1%	0	0%
2016	149,768	82,504,480	132,512	88%	17,256	12%	0	0%	0	0%
2017	39,451	54,177,286	37,054	94%	2,397	6%	0	0%	0	0%
2018	4,352	14,521,612	4,352	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Osteoporosis</b>										
2008	400,875	54,229,304	76,243	19%	102,686	26%	58,520	15%	163,426	41%
2009	265,149	51,739,314	59,793	23%	67,010	25%	40,415	15%	97,931	37%
2010	1,500,359	67,844,100	197,427	13%	278,470	19%	227,412	15%	797,050	53%
2011	1,056,471	65,902,095	157,973	15%	205,925	19%	155,478	15%	537,095	51%
2012	842,986	66,943,714	134,632	16%	170,274	20%	471,381	56%	66,699	8%
2013	871,517	71,715,618	142,235	16%	169,321	19%	554,581	64%	5,380	1%
2014	759,004	74,612,460	129,021	17%	534,866	70%	95,117	13%	0	0%
2015	730,310	76,284,543	112,727	15%	609,359	83%	8,224	1%	0	0%
2016	717,295	78,837,487	574,995	80%	142,300	20%	0	0%	0	0%
2017	195,657	53,356,922	180,537	92%	15,120	8%	0	0%	0	0%
2018	18,344	14,069,168	18,344	100%	0	0%	0	0%	0	0%
<b>Prostate Cancer</b>										
2008	221,216	54,229,304	43,290	20%	59,102	27%	32,975	15%	85,849	39%
2009	82,077	51,899,111	19,472	24%	21,928	27%	12,095	15%	28,582	35%
2010	525,165	68,130,852	72,326	14%	98,093	19%	75,870	14%	278,876	53%
2011	255,111	67,042,903	43,508	17%	52,292	20%	35,010	14%	124,301	49%
2012	227,538	68,682,177	39,994	18%	46,642	20%	117,689	52%	23,213	10%
2013	300,257	73,815,900	52,139	17%	58,946	20%	186,839	62%	2,333	1%
2014	227,381	76,995,856	42,437	19%	151,399	67%	33,545	15%	0	0%
2015	221,442	78,875,973	37,537	17%	180,315	81%	3,590	2%	0	0%
2016	224,095	81,613,411	173,719	78%	50,376	22%	0	0%	0	0%
2017	73,605	53,920,586	66,603	90%	7,002	10%	0	0%	0	0%
2018	8,254	14,382,966	8,254	100%	0	0%	0	0%	0	0%

**Table 5a. Summary of Follow-Up Time for Members with Prevalent Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Rheumatoid Arthritis/Osteoarthritis</b>										
2008	1,793,253	54,229,304	376,961	21%	488,499	27%	252,295	14%	675,498	38%
2009	1,094,790	50,553,441	275,348	25%	300,294	27%	160,805	15%	358,343	33%
2010	4,540,268	66,214,253	603,972	13%	855,907	19%	688,294	15%	2,392,095	53%
2011	3,271,245	61,791,855	497,455	15%	669,768	20%	466,480	14%	1,637,542	50%
2012	2,915,702	61,352,477	466,645	16%	612,711	21%	1,542,606	53%	293,740	10%
2013	3,240,661	64,902,551	533,319	16%	640,018	20%	2,041,120	63%	26,204	1%
2014	2,910,403	66,469,339	509,475	18%	1,895,773	65%	505,155	17%	0	0%
2015	2,900,511	67,152,382	481,081	17%	2,379,545	82%	39,885	1%	0	0%
2016	3,058,510	68,695,240	2,228,891	73%	829,619	27%	0	0%	0	0%
2017	1,135,519	49,634,590	1,056,070	93%	79,449	7%	0	0%	0	0%
2018	96,832	12,420,739	96,832	100%	0	0%	0	0%	0	0%
<b>Stroke/Transient Ischemic Attack</b>										
2008	253,936	49,246,350	76,784	30%	71,531	28%	35,097	14%	70,524	28%
2009	185,236	46,817,007	61,446	33%	48,540	26%	25,409	14%	49,841	27%
2010	1,002,800	57,480,059	252,459	25%	226,304	23%	160,157	16%	363,880	36%
2011	750,960	56,090,274	195,721	26%	168,171	22%	114,219	15%	272,849	36%
2012	701,547	57,424,505	186,791	27%	159,008	23%	311,581	44%	44,167	6%
2013	752,565	62,167,167	200,933	27%	166,504	22%	381,005	51%	4,123	1%
2014	716,712	65,625,631	201,226	28%	443,058	62%	72,428	10%	0	0%
2015	703,476	68,135,713	190,774	27%	505,956	72%	6,746	1%	0	0%
2016	704,900	71,731,690	586,253	83%	118,647	17%	0	0%	0	0%
2017	182,705	50,056,564	170,400	93%	12,305	7%	0	0%	0	0%
2018	17,453	13,406,319	17,453	100%	0	0%	0	0%	0	0%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)



**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Acquired Hypothyroidism</b>										
2008	290,903	36,414,269	54,997	19%	67,317	23%	41,747	14%	126,842	44%
2009	558,063	36,866,313	133,272	24%	148,236	27%	83,433	15%	193,122	35%
2010	483,211	35,013,813	112,953	23%	124,885	26%	80,033	17%	165,340	34%
2011	1,403,118	48,505,270	217,043	15%	283,919	20%	201,024	14%	701,132	50%
2012	1,207,582	52,635,729	193,542	16%	260,073	22%	630,412	52%	123,555	10%
2013	1,130,830	49,338,806	192,970	17%	233,077	21%	693,995	61%	10,788	1%
2014	1,137,614	51,984,233	193,284	17%	767,580	67%	176,750	16%	0	0%
2015	1,090,928	53,591,242	176,176	16%	899,512	82%	15,240	1%	0	0%
2016	1,090,547	60,355,549	807,803	74%	282,744	26%	0	0%	0	0%
2017	353,989	35,652,216	330,591	93%	23,398	7%	0	0%	0	0%
2018	30,943	9,453,500	30,943	100%	0	0%	0	0%	0	0%
<b>Acute Myocardial Infarction</b>										
2008	36,064	37,360,996	12,524	35%	7,854	22%	4,520	13%	11,166	31%
2009	54,429	37,835,273	19,915	37%	12,911	24%	7,014	13%	14,589	27%
2010	54,121	36,226,876	19,505	36%	12,416	23%	7,269	13%	14,931	28%
2011	227,362	51,791,905	91,513	40%	46,039	20%	28,287	12%	61,523	27%
2012	232,328	56,935,198	92,670	40%	48,184	21%	77,138	33%	14,336	6%
2013	229,624	53,933,709	90,836	40%	46,567	20%	90,885	40%	1,336	1%
2014	244,459	57,330,768	97,098	40%	124,879	51%	22,482	9%	0	0%
2015	254,630	59,389,448	97,610	38%	154,725	61%	2,295	1%	0	0%
2016	266,477	66,901,197	224,422	84%	42,055	16%	0	0%	0	0%
2017	68,718	37,824,054	64,705	94%	4,013	6%	0	0%	0	0%
2018	6,762	10,379,687	6,762	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Alzheimer's Disease and Related Disorders (1,095-day washout)</b>										
2008	21,476	10,737,827	5,619	26%	5,987	28%	3,239	15%	6,631	31%
2009	36,049	11,947,123	10,222	28%	9,776	27%	6,235	17%	9,816	27%
2010	49,084	20,989,315	14,619	30%	13,027	27%	8,968	18%	12,470	25%
2011	73,378	20,793,843	22,088	30%	20,424	28%	12,956	18%	17,910	24%
2012	74,914	33,250,000	22,703	30%	21,509	29%	14,418	19%	16,284	22%
2013	473,407	34,955,708	131,951	28%	124,446	26%	215,373	45%	1,637	0%
2014	475,960	35,859,029	139,855	29%	305,445	64%	30,660	6%	0	0%
2015	549,448	33,986,178	153,923	28%	392,446	71%	3,079	1%	0	0%
2016	678,586	40,343,255	604,155	89%	74,431	11%	0	0%	0	0%
2017	109,479	23,394,503	102,227	93%	7,252	7%	0	0%	0	0%
2018	9,943	5,977,537	9,943	100%	0	0%	0	0%	0	0%
<b>Alzheimer's Disease and Related Disorders (365-day washout)</b>										
2008	89,702	37,229,433	26,548	30%	26,412	29%	14,050	16%	22,692	25%
2009	120,916	37,700,792	39,189	32%	35,648	29%	19,434	16%	26,645	22%
2010	110,508	36,079,778	35,435	32%	31,307	28%	19,106	17%	24,660	22%
2011	808,261	50,627,921	217,702	27%	217,300	27%	146,117	18%	227,142	28%
2012	759,385	55,487,050	210,019	28%	209,282	28%	316,525	42%	23,559	3%
2013	694,086	52,387,279	193,396	28%	189,073	27%	309,384	45%	2,233	0%
2014	707,151	55,606,598	208,873	30%	454,111	64%	44,167	6%	0	0%
2015	759,195	57,612,865	214,352	28%	540,512	71%	4,331	1%	0	0%
2016	848,032	64,950,088	743,404	88%	104,628	12%	0	0%	0	0%
2017	150,329	37,595,664	140,168	93%	10,161	7%	0	0%	0	0%
2018	15,023	10,198,927	15,023	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Anemia</b>										
2008	576,624	36,180,498	133,677	23%	143,048	25%	82,309	14%	217,590	38%
2009	1,084,046	36,777,355	293,550	27%	295,185	27%	159,442	15%	335,869	31%
2010	977,410	34,625,098	255,327	26%	258,635	26%	157,916	16%	305,532	31%
2011	2,971,684	47,288,981	554,779	19%	642,962	22%	442,024	15%	1,331,919	45%
2012	2,760,117	50,586,059	523,053	19%	621,257	23%	1,381,741	50%	234,066	8%
2013	2,474,957	46,649,457	494,811	20%	530,510	21%	1,429,965	58%	19,671	1%
2014	2,468,941	48,831,402	496,573	20%	1,624,953	66%	347,415	14%	0	0%
2015	2,367,645	50,039,364	460,306	19%	1,879,559	79%	27,780	1%	0	0%
2016	2,335,054	56,316,880	1,760,465	75%	574,589	25%	0	0%	0	0%
2017	771,340	34,456,368	722,771	94%	48,569	6%	0	0%	0	0%
2018	65,892	8,899,820	65,892	100%	0	0%	0	0%	0	0%
<b>Asthma</b>										
2008	304,802	36,607,207	60,725	20%	72,120	24%	41,120	13%	130,837	43%
2009	578,253	37,074,804	143,683	25%	154,970	27%	81,239	14%	198,361	34%
2010	497,542	35,197,453	118,334	24%	128,707	26%	75,682	15%	174,819	35%
2011	950,128	49,989,406	174,426	18%	211,699	22%	138,187	15%	425,816	45%
2012	874,343	54,593,207	160,695	18%	205,906	24%	387,730	44%	120,012	14%
2013	848,471	51,358,145	165,171	19%	188,732	22%	484,308	57%	10,260	1%
2014	868,527	54,370,851	165,778	19%	517,204	60%	185,545	21%	0	0%
2015	871,140	56,116,887	157,989	18%	697,089	80%	16,062	2%	0	0%
2016	839,622	63,154,037	549,271	65%	290,351	35%	0	0%	0	0%
2017	380,472	35,907,321	355,433	93%	25,039	7%	0	0%	0	0%
2018	31,105	9,821,646	31,105	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Atrial Fibrillation</b>										
2008	99,157	37,054,115	24,781	25%	23,166	23%	14,289	14%	36,921	37%
2009	156,670	37,529,520	43,256	28%	39,741	25%	23,372	15%	50,301	32%
2010	147,582	35,888,484	40,177	27%	36,184	25%	23,595	16%	47,626	32%
2011	709,507	50,228,523	189,680	27%	155,292	22%	105,127	15%	259,408	37%
2012	677,645	54,998,678	185,304	27%	149,616	22%	299,987	44%	42,738	6%
2013	658,282	51,912,084	179,947	27%	141,115	21%	332,948	51%	4,272	1%
2014	703,094	54,971,587	194,170	28%	441,502	63%	67,422	10%	0	0%
2015	712,408	56,853,072	190,080	27%	515,496	72%	6,832	1%	0	0%
2016	711,861	64,071,380	597,827	84%	114,034	16%	0	0%	0	0%
2017	159,544	37,249,682	148,118	93%	11,426	7%	0	0%	0	0%
2018	17,037	10,034,661	17,037	100%	0	0%	0	0%	0	0%
<b>Benign Prostatic Hyperplasia</b>										
2008	135,803	37,061,615	24,462	18%	30,370	22%	19,510	14%	61,461	45%
2009	246,673	37,531,218	54,679	22%	62,785	25%	36,868	15%	92,341	37%
2010	216,025	35,820,571	45,868	21%	53,054	25%	35,248	16%	81,855	38%
2011	750,568	50,692,090	113,987	15%	147,268	20%	106,094	14%	383,219	51%
2012	669,138	55,378,084	105,860	16%	137,620	21%	361,185	54%	64,473	10%
2013	663,728	52,201,442	108,061	16%	129,693	20%	420,067	63%	5,907	1%
2014	698,942	55,215,870	114,549	16%	487,808	70%	96,585	14%	0	0%
2015	709,940	57,012,699	109,752	15%	591,186	83%	9,002	1%	0	0%
2016	731,963	64,132,225	570,372	78%	161,591	22%	0	0%	0	0%
2017	204,156	37,018,454	189,157	93%	14,999	7%	0	0%	0	0%
2018	19,606	9,950,230	19,606	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Chronic Kidney Disease (730-day washout)<sup>1</sup></b>										
2008	126,901	14,409,800	30,866	24%	26,566	21%	16,588	13%	52,881	42%
2009	157,513	21,801,728	37,772	24%	32,715	21%	20,925	13%	66,101	42%
2010	218,488	21,278,324	56,191	26%	48,389	22%	32,678	15%	81,230	37%
2011	213,758	20,912,028	53,769	25%	49,692	23%	29,874	14%	80,423	38%
2012	223,514	22,385,704	54,689	24%	52,105	23%	38,885	17%	77,835	35%
2013	231,168	22,304,964	60,160	26%	49,399	21%	115,112	50%	6,497	3%
2014	224,349	20,061,775	55,441	25%	62,340	28%	106,568	48%	0	0%
2015	317,061	21,572,437	72,973	23%	235,689	74%	8,399	3%	0	0%
2016	502,273	25,009,898	160,501	32%	341,772	68%	0	0%	0	0%
2017	338,989	22,779,320	322,273	95%	16,716	5%	0	0%	0	0%
2018	19,081	3,406,331	19,081	100%	0	0%	0	0%	0	0%
<b>Chronic Kidney Disease (365-day washout)</b>										
2008	211,621	36,942,006	52,952	25%	46,478	22%	27,908	13%	84,283	40%
2009	351,374	37,377,047	100,278	29%	82,947	24%	47,666	14%	120,483	34%
2010	336,200	35,612,450	93,928	28%	78,186	23%	49,604	15%	114,482	34%
2011	1,343,580	49,740,167	358,209	27%	288,651	21%	198,194	15%	498,526	37%
2012	1,321,738	54,100,412	351,064	27%	291,129	22%	570,534	43%	109,011	8%
2013	1,307,303	50,662,426	345,813	26%	276,162	21%	674,347	52%	10,981	1%
2014	1,388,566	53,364,643	367,911	26%	856,075	62%	164,580	12%	0	0%
2015	1,731,873	54,891,568	398,897	23%	1,316,959	76%	16,017	1%	0	0%
2016	2,405,948	61,093,419	1,868,036	78%	537,912	22%	0	0%	0	0%
2017	522,798	35,809,152	486,253	93%	36,545	7%	0	0%	0	0%
2018	46,608	9,235,516	46,608	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>										
2008	223,861	36,861,054	52,501	23%	55,933	25%	32,076	14%	83,351	37%
2009	358,316	37,327,392	97,344	27%	95,248	27%	52,395	15%	113,329	32%
2010	315,777	35,584,427	82,170	26%	80,511	25%	48,974	16%	104,122	33%
2011	1,272,520	49,528,044	256,328	20%	281,191	22%	198,604	16%	536,397	42%
2012	1,157,669	53,956,660	239,671	21%	264,282	23%	572,082	49%	81,634	7%
2013	1,085,901	50,646,512	229,432	21%	240,303	22%	607,084	56%	9,082	1%
2014	1,086,283	53,539,531	234,123	22%	726,767	67%	125,393	12%	0	0%
2015	1,100,020	55,270,951	222,358	20%	863,766	79%	13,896	1%	0	0%
2016	1,077,818	62,249,022	857,176	80%	220,642	20%	0	0%	0	0%
2017	276,615	36,645,467	254,472	92%	22,143	8%	0	0%	0	0%
2018	29,408	9,711,528	29,408	100%	0	0%	0	0%	0	0%
<b>Colorectal Cancer</b>										
2008	23,213	37,320,747	5,775	25%	5,562	24%	2,955	13%	8,921	38%
2009	35,732	37,799,568	9,967	28%	9,247	26%	4,920	14%	11,598	32%
2010	31,554	36,209,440	8,872	28%	7,815	25%	4,681	15%	10,186	32%
2011	134,520	51,673,167	32,904	24%	29,596	22%	19,283	14%	52,737	39%
2012	118,787	56,861,494	30,734	26%	26,581	22%	53,302	45%	8,170	7%
2013	111,918	53,926,161	29,336	26%	24,516	22%	57,363	51%	703	1%
2014	114,663	57,357,741	31,105	27%	71,812	63%	11,746	10%	0	0%
2015	111,501	59,465,903	29,024	26%	81,399	73%	1,078	1%	0	0%
2016	108,436	67,026,725	88,554	82%	19,882	18%	0	0%	0	0%
2017	26,825	37,885,470	25,034	93%	1,791	7%	0	0%	0	0%
2018	2,415	10,416,921	2,415	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Depression</b>										
2008	625,545	35,743,982	141,897	23%	161,032	26%	87,556	14%	235,060	38%
2009	1,094,493	36,321,374	302,204	28%	310,409	28%	157,864	14%	324,016	30%
2010	993,802	34,235,919	269,721	27%	274,858	28%	157,229	16%	291,994	29%
2011	2,299,693	47,670,510	461,100	20%	537,286	23%	343,166	15%	958,141	42%
2012	2,172,411	51,307,828	427,823	20%	528,485	24%	1,002,140	46%	213,963	10%
2013	2,036,835	47,606,341	430,976	21%	471,795	23%	1,114,664	55%	19,400	1%
2014	2,085,836	50,022,418	438,910	21%	1,294,101	62%	352,825	17%	0	0%
2015	2,199,181	51,244,703	444,435	20%	1,725,561	78%	29,185	1%	0	0%
2016	2,208,167	57,277,992	1,518,650	69%	689,517	31%	0	0%	0	0%
2017	933,652	33,659,539	874,044	94%	59,608	6%	0	0%	0	0%
2018	77,467	8,817,410	77,467	100%	0	0%	0	0%	0	0%
<b>Diabetes (730-day washout)</b>										
2008	127,827	14,068,635	24,670	19%	29,360	23%	18,488	14%	55,309	43%
2009	134,753	25,899,007	25,915	19%	30,814	23%	19,081	14%	58,943	44%
2010	243,590	25,510,830	54,437	22%	60,543	25%	39,566	16%	89,044	37%
2011	228,030	24,795,937	49,915	22%	58,455	26%	33,639	15%	86,021	38%
2012	643,954	37,306,839	105,767	16%	138,832	22%	326,443	51%	72,912	11%
2013	593,200	38,745,735	106,323	18%	122,131	21%	358,718	60%	6,028	1%
2014	594,146	36,043,797	106,499	18%	392,084	66%	95,563	16%	0	0%
2015	641,728	38,404,713	104,571	16%	528,331	82%	8,826	1%	0	0%
2016	656,306	43,491,684	488,671	74%	167,635	26%	0	0%	0	0%
2017	213,577	27,815,867	199,323	93%	14,254	7%	0	0%	0	0%
2018	15,767	6,625,523	15,767	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Diabetes (365-day washout)</b>										
2008	255,946	35,465,841	51,167	20%	60,688	24%	35,277	14%	108,814	43%
2009	453,032	35,948,774	112,785	25%	119,686	26%	66,044	15%	154,517	34%
2010	395,071	34,232,936	94,791	24%	101,659	26%	63,784	16%	134,837	34%
2011	1,086,907	45,629,689	183,866	17%	224,912	21%	159,745	15%	518,384	48%
2012	941,636	49,705,071	163,412	17%	209,874	22%	465,721	49%	102,629	11%
2013	899,479	46,689,404	164,599	18%	189,528	21%	536,607	60%	8,745	1%
2014	934,503	49,258,336	170,866	18%	611,525	65%	152,112	16%	0	0%
2015	950,897	50,904,827	164,447	17%	772,202	81%	14,248	1%	0	0%
2016	952,667	57,455,629	692,755	73%	259,912	27%	0	0%	0	0%
2017	334,682	34,895,972	311,974	93%	22,708	7%	0	0%	0	0%
2018	27,449	8,993,434	27,449	100%	0	0%	0	0%	0	0%
<b>Endometrial Cancer</b>										
2008	6,450	37,372,684	1,277	20%	1,489	23%	851	13%	2,833	44%
2009	10,407	37,850,643	2,475	24%	2,659	26%	1,458	14%	3,815	37%
2010	9,850	36,268,179	2,340	24%	2,421	25%	1,573	16%	3,516	36%
2011	39,116	51,854,422	7,873	20%	8,222	21%	5,512	14%	17,509	45%
2012	36,691	57,101,390	7,349	20%	8,120	22%	17,894	49%	3,328	9%
2013	36,153	54,182,265	7,451	21%	7,618	21%	20,779	57%	305	1%
2014	38,366	57,649,615	7,939	21%	25,609	67%	4,818	13%	0	0%
2015	39,254	59,776,263	7,522	19%	31,305	80%	427	1%	0	0%
2016	41,657	67,366,270	33,340	80%	8,317	20%	0	0%	0	0%
2017	10,759	37,970,115	10,023	93%	736	7%	0	0%	0	0%
2018	980	10,462,722	980	100%	0	0%	0	0%	0	0%



**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Female/Male Breast Cancer</b>										
2008	44,498	37,142,798	7,538	17%	9,740	22%	6,243	14%	20,977	47%
2009	72,990	37,623,257	15,579	21%	18,323	25%	11,043	15%	28,045	38%
2010	65,242	36,024,438	13,164	20%	16,044	25%	10,821	17%	25,213	39%
2011	225,456	51,225,626	37,254	17%	44,680	20%	31,664	14%	111,858	50%
2012	199,227	56,310,821	32,762	16%	40,956	21%	103,793	52%	21,716	11%
2013	193,247	53,356,936	32,315	17%	37,328	19%	121,673	63%	1,931	1%
2014	202,810	56,698,328	33,611	17%	138,076	68%	31,123	15%	0	0%
2015	202,239	58,748,337	30,924	15%	168,518	83%	2,797	1%	0	0%
2016	201,637	66,209,154	154,175	76%	47,462	24%	0	0%	0	0%
2017	58,092	37,618,074	53,994	93%	4,098	7%	0	0%	0	0%
2018	5,366	10,307,700	5,366	100%	0	0%	0	0%	0	0%
<b>Glaucoma</b>										
2008	249,999	36,635,998	41,518	17%	55,657	22%	35,692	14%	117,132	47%
2009	439,607	37,169,281	96,623	22%	112,623	26%	66,813	15%	163,548	37%
2010	371,249	35,364,817	79,222	21%	93,544	25%	61,865	17%	136,618	37%
2011	1,072,705	49,424,023	128,792	12%	204,978	19%	153,091	14%	585,844	55%
2012	966,845	53,826,808	119,822	12%	196,734	20%	543,733	56%	106,556	11%
2013	936,437	50,589,993	125,581	13%	182,584	19%	618,453	66%	9,819	1%
2014	992,746	53,385,502	131,988	13%	695,504	70%	165,254	17%	0	0%
2015	980,882	55,029,224	122,195	12%	843,625	86%	15,062	2%	0	0%
2016	941,187	61,911,303	694,242	74%	246,945	26%	0	0%	0	0%
2017	302,999	36,248,511	280,837	93%	22,162	7%	0	0%	0	0%
2018	27,220	9,651,033	27,220	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Heart Failure (730-day washout)</b>										
2008	99,254	14,784,274	25,756	26%	25,549	26%	14,213	14%	33,736	34%
2009	110,399	27,373,420	29,904	27%	26,605	24%	16,572	15%	37,318	34%
2010	179,522	26,970,780	52,065	29%	44,713	25%	29,378	16%	53,366	30%
2011	171,920	26,279,962	48,537	28%	44,126	26%	26,712	16%	52,545	31%
2012	890,183	41,497,180	222,723	25%	205,379	23%	414,287	47%	47,794	5%
2013	903,671	43,301,407	230,063	25%	206,296	23%	462,823	51%	4,489	0%
2014	901,930	40,392,088	237,599	26%	592,200	66%	72,131	8%	0	0%
2015	967,151	43,102,791	242,491	25%	717,497	74%	7,163	1%	0	0%
2016	936,413	48,711,949	804,423	86%	131,990	14%	0	0%	0	0%
2017	190,578	29,898,156	177,795	93%	12,783	7%	0	0%	0	0%
2018	18,106	7,378,673	18,106	100%	0	0%	0	0%	0	0%
<b>Heart Failure (365-day washout)</b>										
2008	181,933	37,025,031	47,894	26%	48,292	27%	26,328	14%	59,419	33%
2009	272,181	37,513,561	82,294	30%	72,018	26%	40,569	15%	77,300	28%
2010	242,431	35,822,168	71,704	30%	62,311	26%	39,451	16%	68,965	28%
2011	1,336,609	50,069,551	318,796	24%	311,052	23%	219,974	16%	486,787	36%
2012	1,246,327	54,579,435	308,349	25%	297,725	24%	581,626	47%	58,627	5%
2013	1,135,776	51,245,167	286,896	25%	264,778	23%	578,647	51%	5,455	0%
2014	1,150,549	54,196,252	301,686	26%	753,267	65%	95,596	8%	0	0%
2015	1,126,040	55,967,791	281,085	25%	835,674	74%	9,281	1%	0	0%
2016	1,082,521	63,094,805	914,008	84%	168,513	16%	0	0%	0	0%
2017	238,722	37,099,659	222,408	93%	16,314	7%	0	0%	0	0%
2018	24,610	9,894,656	24,610	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Hyperlipidemia</b>										
2008	973,464	33,573,217	175,362	18%	221,671	23%	136,726	14%	439,705	45%
2009	1,866,440	34,046,311	433,612	23%	489,960	26%	277,483	15%	665,385	36%
2010	1,537,838	31,613,925	345,775	22%	392,574	26%	251,922	16%	547,567	36%
2011	3,617,377	39,970,658	534,913	15%	729,884	20%	511,686	14%	1,840,894	51%
2012	2,977,567	42,047,950	454,793	15%	645,076	22%	1,504,214	51%	373,484	13%
2013	2,798,103	38,557,889	460,946	16%	569,703	20%	1,735,936	62%	31,518	1%
2014	2,790,333	39,861,966	450,814	16%	1,826,739	65%	512,780	18%	0	0%
2015	2,734,155	40,868,128	419,120	15%	2,271,165	83%	43,870	2%	0	0%
2016	2,660,687	46,266,273	1,879,611	71%	781,076	29%	0	0%	0	0%
2017	882,870	30,905,529	825,525	94%	57,345	6%	0	0%	0	0%
2018	82,715	7,427,698	82,715	100%	0	0%	0	0%	0	0%
<b>Hypertension</b>										
2008	942,743	32,913,499	179,962	19%	215,450	23%	129,825	14%	417,506	44%
2009	1,684,756	33,413,410	401,274	24%	443,060	26%	248,329	15%	592,093	35%
2010	1,375,083	31,188,512	318,009	23%	353,008	26%	221,827	16%	482,239	35%
2011	3,091,928	37,345,315	486,519	16%	626,707	20%	430,302	14%	1,548,400	50%
2012	2,594,880	39,700,865	416,792	16%	563,227	22%	1,291,822	50%	323,039	12%
2013	2,428,113	36,573,658	420,465	17%	493,945	20%	1,484,783	61%	28,920	1%
2014	2,404,601	37,932,109	409,093	17%	1,552,668	65%	442,840	18%	0	0%
2015	2,393,275	39,049,353	387,386	16%	1,965,976	82%	39,913	2%	0	0%
2016	2,434,364	44,270,870	1,687,153	69%	747,211	31%	0	0%	0	0%
2017	923,560	30,376,440	860,288	93%	63,272	7%	0	0%	0	0%
2018	80,529	7,041,682	80,529	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Ischemic Heart Disease (730-day washout)</b>										
2008	164,498	14,359,601	34,987	21%	38,060	23%	24,304	15%	67,147	41%
2009	184,520	26,424,041	39,049	21%	43,155	23%	27,435	15%	74,881	41%
2010	321,612	26,103,775	76,211	24%	80,253	25%	52,998	16%	112,150	35%
2011	298,155	25,411,871	69,842	23%	76,291	26%	45,576	15%	106,446	36%
2012	1,108,898	38,401,252	209,716	19%	234,201	21%	572,661	52%	92,320	8%
2013	1,091,673	40,044,287	215,190	20%	223,030	20%	645,353	59%	8,100	1%
2014	1,086,724	37,218,330	219,298	20%	745,520	69%	121,906	11%	0	0%
2015	1,160,270	39,550,524	220,182	19%	928,957	80%	11,131	1%	0	0%
2016	1,192,588	44,754,387	975,101	82%	217,487	18%	0	0%	0	0%
2017	290,096	28,727,231	270,604	93%	19,492	7%	0	0%	0	0%
2018	24,233	6,843,644	24,233	100%	0	0%	0	0%	0	0%
<b>Ischemic Heart Disease (365-day washout)</b>										
2008	356,863	36,207,503	76,166	21%	86,453	24%	51,888	15%	142,356	40%
2009	596,288	36,780,364	152,084	26%	157,441	26%	89,464	15%	197,299	33%
2010	504,896	34,950,808	124,585	25%	129,756	26%	82,635	16%	167,920	33%
2011	1,949,524	47,523,755	349,791	18%	404,167	21%	295,255	15%	900,311	46%
2012	1,789,727	51,410,739	329,752	18%	383,705	21%	949,921	53%	126,349	7%
2013	1,587,268	47,972,215	303,855	19%	329,479	21%	942,738	59%	11,196	1%
2014	1,604,510	50,474,525	313,459	20%	1,107,395	69%	183,656	11%	0	0%
2015	1,548,488	52,017,797	289,710	19%	1,242,294	80%	16,484	1%	0	0%
2016	1,557,791	58,707,616	1,249,259	80%	308,532	20%	0	0%	0	0%
2017	403,291	35,850,713	375,643	93%	27,648	7%	0	0%	0	0%
2018	36,508	9,252,441	36,508	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Lung Cancer</b>										
2008	17,880	37,348,353	9,474	53%	4,324	24%	1,459	8%	2,623	15%
2009	28,151	37,828,080	15,523	55%	6,732	24%	2,313	8%	3,583	13%
2010	26,509	36,246,573	14,649	55%	6,180	23%	2,364	9%	3,316	13%
2011	107,295	51,751,025	55,794	52%	23,741	22%	9,699	9%	18,061	17%
2012	106,014	56,985,462	56,267	53%	23,623	22%	23,082	22%	3,042	3%
2013	106,130	54,072,594	56,404	53%	22,987	22%	26,479	25%	260	0%
2014	113,778	57,530,365	60,039	53%	48,285	42%	5,454	5%	0	0%
2015	115,578	59,656,802	59,456	51%	55,619	48%	503	0%	0	0%
2016	115,453	67,238,519	102,906	89%	12,547	11%	0	0%	0	0%
2017	27,680	37,952,924	26,429	95%	1,251	5%	0	0%	0	0%
2018	2,498	10,447,619	2,498	100%	0	0%	0	0%	0	0%
<b>Osteoporosis</b>										
2008	133,632	37,144,720	23,020	17%	28,966	22%	19,323	14%	62,323	47%
2009	223,286	37,605,859	47,078	21%	53,982	24%	34,370	15%	87,856	39%
2010	190,538	35,902,027	37,647	20%	45,397	24%	31,306	16%	76,188	40%
2011	941,410	50,673,158	134,296	14%	179,729	19%	139,922	15%	487,463	52%
2012	792,607	55,300,805	119,571	15%	158,669	20%	457,426	58%	56,941	7%
2013	698,847	52,056,920	107,537	15%	135,935	19%	450,724	64%	4,651	1%
2014	697,193	55,122,170	109,439	16%	510,539	73%	77,215	11%	0	0%
2015	667,083	56,954,929	95,688	14%	564,575	85%	6,820	1%	0	0%
2016	642,084	64,176,152	524,009	82%	118,075	18%	0	0%	0	0%
2017	143,670	37,250,691	132,628	92%	11,042	8%	0	0%	0	0%
2018	14,110	10,057,478	14,110	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Prostate Cancer</b>										
2008	35,400	37,220,281	6,042	17%	7,801	22%	4,927	14%	16,630	47%
2009	58,683	37,701,337	12,468	21%	14,466	25%	8,739	15%	23,010	39%
2010	52,313	36,104,634	10,355	20%	12,606	24%	8,369	16%	20,983	40%
2011	183,988	51,342,501	29,022	16%	36,120	20%	25,682	14%	93,164	51%
2012	153,508	56,451,940	25,532	17%	31,135	20%	79,913	52%	16,928	11%
2013	154,003	53,526,677	25,682	17%	29,778	19%	96,956	63%	1,587	1%
2014	163,734	56,882,171	27,206	17%	114,223	70%	22,305	14%	0	0%
2015	168,396	58,959,843	26,197	16%	139,941	83%	2,258	1%	0	0%
2016	172,687	66,449,428	136,403	79%	36,284	21%	0	0%	0	0%
2017	46,218	37,730,653	42,618	92%	3,600	8%	0	0%	0	0%
2018	4,679	10,325,394	4,679	100%	0	0%	0	0%	0	0%
<b>Rheumatoid Arthritis/Osteoarthritis (730-day washout)</b>										
2008	276,544	14,235,649	44,969	16%	58,840	21%	39,258	14%	133,477	48%
2009	314,468	26,128,528	52,599	17%	69,584	22%	45,107	14%	147,178	47%
2010	545,006	25,718,524	109,697	20%	132,537	24%	89,968	17%	212,804	39%
2011	526,070	24,885,826	105,137	20%	134,875	26%	78,052	15%	208,006	40%
2012	1,686,571	37,304,274	230,977	14%	344,341	20%	921,164	55%	190,089	11%
2013	1,569,562	38,320,360	231,738	15%	302,248	19%	1,018,937	65%	16,639	1%
2014	1,614,733	35,255,421	233,219	14%	1,104,913	68%	276,601	17%	0	0%
2015	1,798,295	37,101,213	238,769	13%	1,537,222	85%	22,304	1%	0	0%
2016	1,930,942	41,523,832	1,451,521	75%	479,421	25%	0	0%	0	0%
2017	582,767	27,076,439	544,113	93%	38,654	7%	0	0%	0	0%
2018	43,976	6,284,971	43,976	100%	0	0%	0	0%	0	0%

**Table 5b. Summary of Follow-Up Time for Members with Incident Diagnoses of Various Chronic Conditions in the Sentinel Distributed Database between January 1, 2008 and June 30, 2018, by Calendar Year**

Year	Total Number of Members	Eligible Members	Length of Follow-Up Time							
			< 1 Year		1-2 Years		3-4 Years		5+ Years	
			Number of Members	Percent	Number of Members	Percent	Number of Members	Percent	Number of Members	Percent
<b>Rheumatoid Arthritis/Osteoarthritis (365-day washout)</b>										
2008	441,313	36,297,702	78,613	18%	100,680	23%	61,947	14%	200,073	45%
2009	797,815	36,776,887	181,568	23%	205,368	26%	118,900	15%	291,979	37%
2010	737,763	34,788,418	159,730	22%	184,008	25%	119,664	16%	274,361	37%
2011	2,440,084	47,569,494	341,404	14%	484,682	20%	353,702	14%	1,260,296	52%
2012	2,271,420	51,002,649	322,002	14%	468,564	21%	1,253,918	55%	226,936	10%
2013	2,174,047	47,121,016	323,924	15%	424,188	20%	1,406,073	65%	19,862	1%
2014	2,275,223	49,124,771	336,094	15%	1,576,415	69%	362,714	16%	0	0%
2015	2,309,093	50,082,705	321,992	14%	1,957,934	85%	29,167	1%	0	0%
2016	2,414,068	55,948,476	1,805,905	75%	608,163	25%	0	0%	0	0%
2017	743,014	34,331,465	693,052	93%	49,962	7%	0	0%	0	0%
2018	62,638	8,731,345	62,638	100%	0	0%	0	0%	0	0%
<b>Stroke/Transient Ischemic Attack</b>										
2008	86,063	32,912,160	24,965	29%	20,295	24%	11,995	14%	28,808	33%
2009	146,007	33,327,156	46,349	32%	36,981	25%	20,461	14%	42,216	29%
2010	135,927	31,637,977	42,116	31%	33,298	24%	20,220	15%	40,293	30%
2011	624,990	41,752,575	159,221	25%	137,140	22%	95,964	15%	232,665	37%
2012	600,754	46,094,011	155,470	26%	135,481	23%	274,112	46%	35,691	6%
2013	577,584	43,482,141	151,799	26%	126,858	22%	295,576	51%	3,351	1%
2014	609,964	46,667,053	163,875	27%	389,627	64%	56,462	9%	0	0%
2015	598,895	49,105,535	155,368	26%	438,287	73%	5,240	1%	0	0%
2016	601,383	57,037,172	506,470	84%	94,913	16%	0	0%	0	0%
2017	135,727	34,178,610	127,143	94%	8,584	6%	0	0%	0	0%
2018	12,895	9,421,975	12,895	100%	0	0%	0	0%	0	0%

<sup>1</sup>Results for this condition only include data from Data Partners 1-13 (Appendix A)

**Appendix A. Dates of Available Data for Each Data Partner (DP) in the Sentinel Distributed Database (SDD) as of Request Distribution Date (October 18, 2018)**

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<b>DP ID</b>	<b>Start Date*</b>	<b>End Date*</b>
DP01	01/01/2008	6/30/2018
DP02	01/01/2008	5/31/2018
DP03	01/01/2008	3/31/2018
DP04	01/01/2008	3/31/2018
DP05	01/01/2008	1/31/2018
DP06	01/01/2008	12/31/2017
DP07	01/01/2008	12/31/2017
DP08	01/01/2008	10/31/2017
DP09	01/01/2008	6/30/2017
DP10	01/01/2008	6/30/2017
DP11	01/01/2008	12/31/2016
DP12	01/01/2008	3/31/2016
DP13	01/01/2008	5/31/2015
DP14	01/01/2008	3/31/2018
DP15	01/01/2008	12/17/2017
DP16	01/01/2012	6/30/2017
DP17	01/01/2010	12/31/2016

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



**Appendix B. List of 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
<b>Acquired Hypothyroidism</b>		
244.0	Postsurgical hypothyroidism	ICD-9-CM
244.1	Other postablative hypothyroidism	ICD-9-CM
244.2	Iodine hypothyroidism	ICD-9-CM
244.3	Other iatrogenic hypothyroidism	ICD-9-CM
244.8	Other specified acquired hypothyroidism	ICD-9-CM
244.9	Unspecified hypothyroidism	ICD-9-CM
E01.8	Other iodine-deficiency related thyroid disorders and allied conditions	ICD-10-CM
E02	Subclinical iodine-deficiency hypothyroidism	ICD-10-CM
E03.2	Hypothyroidism due to medicaments and other exogenous substances	ICD-10-CM
E03.3	Postinfectious hypothyroidism	ICD-10-CM
E03.8	Other specified hypothyroidism	ICD-10-CM
E03.9	Hypothyroidism, unspecified	ICD-10-CM
E89.0	Postprocedural hypothyroidism	ICD-10-CM
<b>Acute Myocardial Infarction</b>		
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	ICD-10-CM
I21.9	Acute myocardial infarction, unspecified	ICD-10-CM
I21.A1	Myocardial infarction type 2	ICD-10-CM
I21.A9	Other myocardial infarction type	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	ICD-10-CM

**Appendix B. 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 Events in this Request**

Code	Description	Code Type
<b>Alzheimer's Disease and Related Disorders</b>		
290.0	Senile dementia, uncomplicated	ICD-9-CM
290.10	Presenile dementia, uncomplicated	ICD-9-CM
290.11	Presenile dementia with delirium	ICD-9-CM
290.12	Presenile dementia with delusional features	ICD-9-CM
290.13	Presenile dementia with depressive features	ICD-9-CM
290.20	Senile dementia with delusional features	ICD-9-CM
290.21	Senile dementia with depressive features	ICD-9-CM
290.3	Senile dementia with delirium	ICD-9-CM
290.40	Vascular dementia, uncomplicated	ICD-9-CM
290.41	Vascular dementia, with delirium	ICD-9-CM
290.42	Vascular dementia, with delusions	ICD-9-CM
290.43	Vascular dementia, with depressed mood	ICD-9-CM
294.0	Amnestic disorder in conditions classified elsewhere	ICD-9-CM
294.10	Dementia in conditions classified elsewhere without behavioral disturbance	ICD-9-CM
294.11	Dementia in conditions classified elsewhere with behavioral disturbance	ICD-9-CM
294.20	Dementia, unspecified, without behavioral disturbance	ICD-9-CM
294.21	Dementia, unspecified, with behavioral disturbance	ICD-9-CM
294.8	Other persistent mental disorders due to conditions classified elsewhere	ICD-9-CM
331.0	Alzheimer's disease	ICD-9-CM
331.11	Pick's disease	ICD-9-CM
331.19	Other frontotemporal dementia	ICD-9-CM
331.2	Senile degeneration of brain	ICD-9-CM
331.7	Cerebral degeneration in diseases classified elsewhere	ICD-9-CM
797	Senility without mention of psychosis	ICD-9-CM
F01.50	Vascular dementia without behavioral disturbance	ICD-10-CM
F01.51	Vascular dementia with behavioral disturbance	ICD-10-CM
F02.80	Dementia in other diseases classified elsewhere without behavioral disturbance	ICD-10-CM
F02.81	Dementia in other diseases classified elsewhere with behavioral disturbance	ICD-10-CM
F03.90	Unspecified dementia without behavioral disturbance	ICD-10-CM
F03.91	Unspecified dementia with behavioral disturbance	ICD-10-CM
F04	Amnestic disorder due to known physiological condition	ICD-10-CM
F05	Delirium due to known physiological condition	ICD-10-CM
F06.1	Catatonic disorder due to known physiological condition	ICD-10-CM
F06.8	Other specified mental disorders due to known physiological condition	ICD-10-CM
G13.8	Systemic atrophy primarily affecting central nervous system in other diseases classified elsewhere	ICD-10-CM
G30.0	Alzheimer's disease with early onset	ICD-10-CM
G30.1	Alzheimer's disease with late onset	ICD-10-CM
G30.8	Other Alzheimer's disease	ICD-10-CM
G30.9	Alzheimer's disease, unspecified	ICD-10-CM
G31.01	Pick's disease	ICD-10-CM
G31.09	Other frontotemporal dementia	ICD-10-CM
G31.1	Senile degeneration of brain, not elsewhere classified	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
G31.2	Degeneration of nervous system due to alcohol	ICD-10-CM
G94	Other disorders of brain in diseases classified elsewhere	ICD-10-CM
R41.81	Age-related cognitive decline	ICD-10-CM
R54	Age-related physical debility	ICD-10-CM
<b>Anemia</b>		
280.0	Iron deficiency anemia secondary to blood loss (chronic)	ICD-9-CM
280.1	Iron deficiency anemia secondary to inadequate dietary iron intake	ICD-9-CM
280.8	Other specified iron deficiency anemias	ICD-9-CM
280.9	Unspecified iron deficiency anemia	ICD-9-CM
281.0	Pernicious anemia	ICD-9-CM
281.1	Other vitamin B12 deficiency anemia	ICD-9-CM
281.2	Folate-deficiency anemia	ICD-9-CM
281.3	Other specified megaloblastic anemias not elsewhere classified	ICD-9-CM
281.4	Protein-deficiency anemia	ICD-9-CM
281.8	Anemia associated with other specified nutritional deficiency	ICD-9-CM
281.9	Unspecified deficiency anemia	ICD-9-CM
282.0	Hereditary spherocytosis	ICD-9-CM
282.1	Hereditary elliptocytosis	ICD-9-CM
282.2	Anemias due to disorders of glutathione metabolism	ICD-9-CM
282.3	Other hemolytic anemias due to enzyme deficiency	ICD-9-CM
282.40	Thalassemia, unspecified	ICD-9-CM
282.41	Sickle-cell thalassemia without crisis	ICD-9-CM
282.42	Sickle-cell thalassemia with crisis	ICD-9-CM
282.43	Alpha thalassemia	ICD-9-CM
282.44	Beta thalassemia	ICD-9-CM
282.45	Delta-beta thalassemia	ICD-9-CM
282.46	Thalassemia minor	ICD-9-CM
282.47	Hemoglobin E-beta thalassemia	ICD-9-CM
282.49	Other thalassemia	ICD-9-CM
282.5	Sickle-cell trait	ICD-9-CM
282.60	Sickle-cell disease, unspecified	ICD-9-CM
282.61	Hb-SS disease without crisis	ICD-9-CM
282.62	Hb-SS disease with crisis	ICD-9-CM
282.63	Sickle-cell/Hb-C disease without crisis	ICD-9-CM
282.64	Sickle-cell/Hb-C disease with crisis	ICD-9-CM
282.68	Other sickle-cell disease without crisis	ICD-9-CM
282.69	Other sickle-cell disease with crisis	ICD-9-CM
282.7	Other hemoglobinopathies	ICD-9-CM
282.8	Other specified hereditary hemolytic anemias	ICD-9-CM
282.9	Unspecified hereditary hemolytic anemia	ICD-9-CM
283.0	Autoimmune hemolytic anemias	ICD-9-CM
283.10	Unspecified non-autoimmune hemolytic anemia	ICD-9-CM
283.11	Hemolytic-uremic syndrome	ICD-9-CM

**Appendix B. 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 Events in this Request**

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

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
D55.8	Other anemias due to enzyme disorders	ICD-10-CM
D55.9	Anemia due to enzyme disorder, unspecified	ICD-10-CM
D56.0	Alpha thalassemia	ICD-10-CM
D56.1	Beta thalassemia	ICD-10-CM
D56.2	Delta-beta thalassemia	ICD-10-CM
D56.3	Thalassemia minor	ICD-10-CM
D56.4	Hereditary persistence of fetal hemoglobin [HPFH]	ICD-10-CM
D56.5	Hemoglobin E-beta thalassemia	ICD-10-CM
D56.8	Other thalassemias	ICD-10-CM
D56.9	Thalassemia, unspecified	ICD-10-CM
D57.00	Hb-SS disease with crisis, unspecified	ICD-10-CM
D57.01	Hb-SS disease with acute chest syndrome	ICD-10-CM
D57.02	Hb-SS disease with splenic sequestration	ICD-10-CM
D57.1	Sickle-cell disease without crisis	ICD-10-CM
D57.20	Sickle-cell/Hb-C disease without crisis	ICD-10-CM
D57.211	Sickle-cell/Hb-C disease with acute chest syndrome	ICD-10-CM
D57.212	Sickle-cell/Hb-C disease with splenic sequestration	ICD-10-CM
D57.219	Sickle-cell/Hb-C disease with crisis, unspecified	ICD-10-CM
D57.3	Sickle-cell trait	ICD-10-CM
D57.40	Sickle-cell thalassemia without crisis	ICD-10-CM
D57.411	Sickle-cell thalassemia with acute chest syndrome	ICD-10-CM
D57.412	Sickle-cell thalassemia with splenic sequestration	ICD-10-CM
D57.419	Sickle-cell thalassemia with crisis, unspecified	ICD-10-CM
D57.80	Other sickle-cell disorders without crisis	ICD-10-CM
D57.811	Other sickle-cell disorders with acute chest syndrome	ICD-10-CM
D57.812	Other sickle-cell disorders with splenic sequestration	ICD-10-CM
D57.819	Other sickle-cell disorders with crisis, unspecified	ICD-10-CM
D58.0	Hereditary spherocytosis	ICD-10-CM
D58.1	Hereditary elliptocytosis	ICD-10-CM
D58.2	Other hemoglobinopathies	ICD-10-CM
D58.8	Other specified hereditary hemolytic anemias	ICD-10-CM
D58.9	Hereditary hemolytic anemia, unspecified	ICD-10-CM
D59.0	Drug-induced autoimmune hemolytic anemia	ICD-10-CM
D59.1	Other autoimmune hemolytic anemias	ICD-10-CM
D59.2	Drug-induced nonautoimmune hemolytic anemia	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	ICD-10-CM
D59.4	Other nonautoimmune hemolytic anemias	ICD-10-CM
D59.5	Paroxysmal nocturnal hemoglobinuria [Marchiafava-Micheli]	ICD-10-CM
D59.6	Hemoglobinuria due to hemolysis from other external causes	ICD-10-CM
D59.8	Other acquired hemolytic anemias	ICD-10-CM
D59.9	Acquired hemolytic anemia, unspecified	ICD-10-CM
D60.0	Chronic acquired pure red cell aplasia	ICD-10-CM
D60.1	Transient acquired pure red cell aplasia	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
D60.8	Other acquired pure red cell aplasias	ICD-10-CM
D60.9	Acquired pure red cell aplasia, unspecified	ICD-10-CM
D61.01	Constitutional (pure) red blood cell aplasia	ICD-10-CM
D61.09	Other constitutional aplastic anemia	ICD-10-CM
D61.1	Drug-induced aplastic anemia	ICD-10-CM
D61.2	Aplastic anemia due to other external agents	ICD-10-CM
D61.3	Idiopathic aplastic anemia	ICD-10-CM
D61.810	Antineoplastic chemotherapy induced pancytopenia	ICD-10-CM
D61.811	Other drug-induced pancytopenia	ICD-10-CM
D61.818	Other pancytopenia	ICD-10-CM
D61.82	Myelophthisis	ICD-10-CM
D61.89	Other specified aplastic anemias and other bone marrow failure syndromes	ICD-10-CM
D61.9	Aplastic anemia, unspecified	ICD-10-CM
D62	Acute posthemorrhagic anemia	ICD-10-CM
D63.0	Anemia in neoplastic disease	ICD-10-CM
D63.1	Anemia in chronic kidney disease	ICD-10-CM
D63.8	Anemia in other chronic diseases classified elsewhere	ICD-10-CM
D64.0	Hereditary sideroblastic anemia	ICD-10-CM
D64.1	Secondary sideroblastic anemia due to disease	ICD-10-CM
D64.2	Secondary sideroblastic anemia due to drugs and toxins	ICD-10-CM
D64.3	Other sideroblastic anemias	ICD-10-CM
D64.4	Congenital dyserythropoietic anemia	ICD-10-CM
D64.81	Anemia due to antineoplastic chemotherapy	ICD-10-CM
D64.89	Other specified anemias	ICD-10-CM
D64.9	Anemia, unspecified	ICD-10-CM
<b>Asthma</b>		
493.00	Extrinsic asthma, unspecified	ICD-9-CM
493.01	Extrinsic asthma with status asthmaticus	ICD-9-CM
493.02	Extrinsic asthma, with (acute) exacerbation	ICD-9-CM
493.10	Intrinsic asthma, unspecified	ICD-9-CM
493.11	Intrinsic asthma with status asthmaticus	ICD-9-CM
493.12	Intrinsic asthma, with (acute) exacerbation	ICD-9-CM
493.20	Chronic obstructive asthma, unspecified	ICD-9-CM
493.21	Chronic obstructive asthma with status asthmaticus	ICD-9-CM
493.22	Chronic obstructive asthma, with (acute) exacerbation	ICD-9-CM
493.81	Exercise induced bronchospasm	ICD-9-CM
493.82	Cough variant asthma	ICD-9-CM
493.90	Asthma, unspecified, unspecified status	ICD-9-CM
493.91	Asthma, unspecified with status asthmaticus	ICD-9-CM
493.92	Asthma, unspecified, with (acute) exacerbation	ICD-9-CM
J45.20	Mild intermittent asthma, uncomplicated	ICD-10-CM
J45.21	Mild intermittent asthma with (acute) exacerbation	ICD-10-CM
J45.22	Mild intermittent asthma with status asthmaticus	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
J45.30	Mild persistent asthma, uncomplicated	ICD-10-CM
J45.31	Mild persistent asthma with (acute) exacerbation	ICD-10-CM
J45.32	Mild persistent asthma with status asthmaticus	ICD-10-CM
J45.40	Moderate persistent asthma, uncomplicated	ICD-10-CM
J45.41	Moderate persistent asthma with (acute) exacerbation	ICD-10-CM
J45.42	Moderate persistent asthma with status asthmaticus	ICD-10-CM
J45.50	Severe persistent asthma, uncomplicated	ICD-10-CM
J45.51	Severe persistent asthma with (acute) exacerbation	ICD-10-CM
J45.52	Severe persistent asthma with status asthmaticus	ICD-10-CM
J45.901	Unspecified asthma with (acute) exacerbation	ICD-10-CM
J45.902	Unspecified asthma with status asthmaticus	ICD-10-CM
J45.909	Unspecified asthma, uncomplicated	ICD-10-CM
J45.990	Exercise induced bronchospasm	ICD-10-CM
J45.991	Cough variant asthma	ICD-10-CM
J45.998	Other asthma	ICD-10-CM
<b>Atrial Fibrillation</b>		
427.31	Atrial fibrillation	ICD-9-CM
I48.2	Chronic atrial fibrillation	ICD-10-CM
I48.0	Paroxysmal atrial fibrillation	ICD-10-CM
I48.1	Persistent atrial fibrillation	ICD-10-CM
I48.91	Unspecified atrial fibrillation	ICD-10-CM
<b>Benign Prostatic Hyperplasia</b>		
600.00	Hypertrophy (benign) of prostate without urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
600.01	Hypertrophy (benign) of prostate with urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
600.10	Nodular prostate without urinary obstruction	ICD-9-CM
600.11	Nodular prostate with urinary obstruction	ICD-9-CM
600.20	Benign localized hyperplasia of prostate without urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
600.21	Benign localized hyperplasia of prostate with urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
600.3	Cyst of prostate	ICD-9-CM
600.90	Hyperplasia of prostate, unspecified, without urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
600.91	Hyperplasia of prostate, unspecified, with urinary obstruction and other lower urinary tract symptoms [LUTS]	ICD-9-CM
N40.0	Benign prostatic hyperplasia without lower urinary tract symptoms	ICD-10-CM
N40.1	Benign prostatic hyperplasia with lower urinary tract symptoms	ICD-10-CM
N40.2	Nodular prostate without lower urinary tract symptoms	ICD-10-CM
N40.3	Nodular prostate with lower urinary tract symptoms	ICD-10-CM
N42.83	Cyst of prostate	ICD-10-CM

**Appendix B. 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 Events in this Request**

Code	Description	Code Type
<b>Chronic Kidney Disease</b>		
016.00	Tuberculosis of kidney, confirmation unspecified	ICD-9-CM
016.01	Tuberculosis of kidney, bacteriological or histological examination not done	ICD-9-CM
016.02	Tuberculosis of kidney, bacteriological or histological examination unknown (at present)	ICD-9-CM
016.03	Tuberculosis of kidney, tubercle bacilli found (in sputum) by microscopy	ICD-9-CM
016.04	Tuberculosis of kidney, tubercle bacilli not found (in sputum) by microscopy, but found by bacterial culture	ICD-9-CM
016.05	Tuberculosis of kidney, tubercle bacilli not found by bacteriological examination, but tuberculosis confirmed histologically	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]	ICD-9-CM
095.4	Syphilis of kidney	ICD-9-CM
189.0	Malignant neoplasm of kidney, except pelvis	ICD-9-CM
189.9	Malignant neoplasm of urinary organ, site unspecified	ICD-9-CM
223.0	Benign neoplasm of kidney, except pelvis	ICD-9-CM
236.91	Neoplasm of uncertain behavior of kidney and ureter	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
271.4	Renal glycosuria	ICD-9-CM
274.10	Gouty nephropathy, unspecified	ICD-9-CM
283.11	Hemolytic-uremic syndrome	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	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	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	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	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	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	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	ICD-9-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
440.1	Atherosclerosis of renal artery	ICD-9-CM
442.1	Aneurysm of renal artery	ICD-9-CM
572.4	Hepatorenal syndrome	ICD-9-CM
580.0	Acute glomerulonephritis with lesion of proliferative glomerulonephritis	ICD-9-CM
580.4	Acute glomerulonephritis with lesion of rapidly progressive glomerulonephritis	ICD-9-CM
580.81	Acute glomerulonephritis with other specified pathological lesion in kidney in disease classified elsewhere	ICD-9-CM
580.89	Other acute glomerulonephritis with other specified pathological lesion in kidney	ICD-9-CM
580.9	Acute glomerulonephritis with unspecified pathological lesion in kidney	ICD-9-CM
581.0	Nephrotic syndrome with lesion of proliferative glomerulonephritis	ICD-9-CM
581.1	Nephrotic syndrome with lesion of membranous glomerulonephritis	ICD-9-CM
581.2	Nephrotic syndrome with lesion of membranoproliferative glomerulonephritis	ICD-9-CM
581.3	Nephrotic syndrome with lesion of minimal change glomerulonephritis	ICD-9-CM
581.81	Nephrotic syndrome with other specified pathological lesion in kidney in diseases classified elsewhere	ICD-9-CM
581.89	Other nephrotic syndrome with specified pathological lesion in kidney	ICD-9-CM
581.9	Nephrotic syndrome with unspecified pathological lesion in kidney	ICD-9-CM
582.0	Chronic glomerulonephritis with lesion of proliferative glomerulonephritis	ICD-9-CM
582.1	Chronic glomerulonephritis with lesion of membranous glomerulonephritis	ICD-9-CM
582.2	Chronic glomerulonephritis with lesion of membranoproliferative glomerulonephritis	ICD-9-CM
582.4	Chronic glomerulonephritis with lesion of rapidly progressive glomerulonephritis	ICD-9-CM
582.81	Chronic glomerulonephritis with other specified pathological lesion in kidney in diseases classified elsewhere	ICD-9-CM
582.89	Other chronic glomerulonephritis with specified pathological lesion in kidney	ICD-9-CM
582.9	Chronic glomerulonephritis with unspecified pathological lesion in kidney	ICD-9-CM
583.0	Nephritis and nephropathy, not specified as acute or chronic, with lesion of proliferative glomerulonephritis	ICD-9-CM
583.1	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranous glomerulonephritis	ICD-9-CM
583.2	Nephritis and nephropathy, not specified as acute or chronic, with lesion of membranoproliferative glomerulonephritis	ICD-9-CM
583.4	Nephritis and nephropathy, not specified as acute or chronic, with lesion of rapidly progressive glomerulonephritis	ICD-9-CM
583.6	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal cortical necrosis	ICD-9-CM
583.7	Nephritis and nephropathy, not specified as acute or chronic, with lesion of renal medullary necrosis	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	ICD-9-CM
583.89	Other nephritis and nephropathy, not specified as acute or chronic, with specified pathological lesion in kidney	ICD-9-CM
583.9	Nephritis and nephropathy, not specified as acute or chronic, with unspecified pathological lesion in kidney	ICD-9-CM
584.5	Acute kidney failure with lesion of tubular necrosis	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
584.6	Acute kidney failure with lesion of renal cortical necrosis	ICD-9-CM
584.7	Acute kidney failure with lesion of medullary [papillary] necrosis	ICD-9-CM
584.8	Acute kidney failure with other specified pathological lesion in kidney	ICD-9-CM
584.9	Acute kidney failure, unspecified	ICD-9-CM
585.1	Chronic kidney disease, Stage I	ICD-9-CM
585.2	Chronic kidney disease, Stage II (mild)	ICD-9-CM
585.3	Chronic kidney disease, Stage III (moderate)	ICD-9-CM
585.4	Chronic kidney disease, Stage IV (severe)	ICD-9-CM
585.5	Chronic kidney disease, Stage V	ICD-9-CM
585.6	End stage renal disease	ICD-9-CM
585.9	Chronic kidney disease, unspecified	ICD-9-CM
586	Unspecified renal failure	ICD-9-CM
587	Unspecified renal sclerosis	ICD-9-CM
588.0	Renal osteodystrophy	ICD-9-CM
588.1	Nephrogenic diabetes insipidus	ICD-9-CM
588.81	Secondary hyperparathyroidism (of renal origin)	ICD-9-CM
588.89	Other specified disorders resulting from impaired renal function	ICD-9-CM
588.9	Unspecified disorder resulting from impaired renal function	ICD-9-CM
591	Hydronephrosis	ICD-9-CM
753.12	Congenital polycystic kidney, unspecified type	ICD-9-CM
753.13	Congenital polycystic kidney, autosomal dominant	ICD-9-CM
753.14	Congenital polycystic kidney, autosomal recessive	ICD-9-CM
753.15	Congenital renal dysplasia	ICD-9-CM
753.16	Congenital medullary cystic kidney	ICD-9-CM
753.17	Congenital medullary sponge kidney	ICD-9-CM
753.19	Other specified congenital cystic kidney disease	ICD-9-CM
753.20	Unspecified obstructive defect of renal pelvis and ureter	ICD-9-CM
753.21	Congenital obstruction of ureteropelvic junction	ICD-9-CM
753.22	Congenital obstruction of ureterovesical junction	ICD-9-CM
753.23	Congenital ureterocele	ICD-9-CM
753.29	Other obstructive defect of renal pelvis and ureter	ICD-9-CM
794.4	Nonspecific abnormal results of kidney function study	ICD-9-CM
A18.11	Tuberculosis of kidney and ureter	ICD-10-CM
A52.75	Syphilis of kidney and ureter	ICD-10-CM
B52.0	Plasmodium malariae malaria with nephropathy	ICD-10-CM
C64.1	Malignant neoplasm of right kidney, except renal pelvis	ICD-10-CM
C64.2	Malignant neoplasm of left kidney, except renal pelvis	ICD-10-CM
C64.9	Malignant neoplasm of unspecified kidney, except renal pelvis	ICD-10-CM
C68.9	Malignant neoplasm of urinary organ, unspecified	ICD-10-CM
D30.00	Benign neoplasm of unspecified kidney	ICD-10-CM
D30.01	Benign neoplasm of right kidney	ICD-10-CM
D30.02	Benign neoplasm of left kidney	ICD-10-CM
D41.00	Neoplasm of uncertain behavior of unspecified kidney	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
D41.01	Neoplasm of uncertain behavior of right kidney	ICD-10-CM
D41.02	Neoplasm of uncertain behavior of left kidney	ICD-10-CM
D41.10	Neoplasm of uncertain behavior of unspecified renal pelvis	ICD-10-CM
D41.11	Neoplasm of uncertain behavior of right renal pelvis	ICD-10-CM
D41.12	Neoplasm of uncertain behavior of left renal pelvis	ICD-10-CM
D41.20	Neoplasm of uncertain behavior of unspecified ureter	ICD-10-CM
D41.21	Neoplasm of uncertain behavior of right ureter	ICD-10-CM
D41.22	Neoplasm of uncertain behavior of left ureter	ICD-10-CM
D59.3	Hemolytic-uremic syndrome	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	ICD-10-CM
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	ICD-10-CM
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E74.8	Other specified disorders of carbohydrate metabolism	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	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	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	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	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	ICD-10-CM
I70.1	Atherosclerosis of renal artery	ICD-10-CM
I72.2	Aneurysm of renal artery	ICD-10-CM
K76.7	Hepatorenal syndrome	ICD-10-CM
M10.30	Gout due to renal impairment, unspecified site	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M10.311	Gout due to renal impairment, right shoulder	ICD-10-CM
M10.312	Gout due to renal impairment, left shoulder	ICD-10-CM
M10.319	Gout due to renal impairment, unspecified shoulder	ICD-10-CM
M10.321	Gout due to renal impairment, right elbow	ICD-10-CM
M10.322	Gout due to renal impairment, left elbow	ICD-10-CM
M10.329	Gout due to renal impairment, unspecified elbow	ICD-10-CM
M10.331	Gout due to renal impairment, right wrist	ICD-10-CM
M10.332	Gout due to renal impairment, left wrist	ICD-10-CM
M10.339	Gout due to renal impairment, unspecified wrist	ICD-10-CM
M10.341	Gout due to renal impairment, right hand	ICD-10-CM
M10.342	Gout due to renal impairment, left hand	ICD-10-CM
M10.349	Gout due to renal impairment, unspecified hand	ICD-10-CM
M10.351	Gout due to renal impairment, right hip	ICD-10-CM
M10.352	Gout due to renal impairment, left hip	ICD-10-CM
M10.359	Gout due to renal impairment, unspecified hip	ICD-10-CM
M10.361	Gout due to renal impairment, right knee	ICD-10-CM
M10.362	Gout due to renal impairment, left knee	ICD-10-CM
M10.369	Gout due to renal impairment, unspecified knee	ICD-10-CM
M10.371	Gout due to renal impairment, right ankle and foot	ICD-10-CM
M10.372	Gout due to renal impairment, left ankle and foot	ICD-10-CM
M10.379	Gout due to renal impairment, unspecified ankle and foot	ICD-10-CM
M10.38	Gout due to renal impairment, vertebrae	ICD-10-CM
M10.39	Gout due to renal impairment, multiple sites	ICD-10-CM
M32.14	Glomerular disease in systemic lupus erythematosus	ICD-10-CM
M32.15	Tubulo-interstitial nephropathy in systemic lupus erythematosus	ICD-10-CM
M35.04	Sicca syndrome with tubulo-interstitial nephropathy	ICD-10-CM
N00.0	Acute nephritic syndrome with minor glomerular abnormality	ICD-10-CM
N00.1	Acute nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM
N00.2	Acute nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM
N00.3	Acute nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N00.4	Acute nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N00.5	Acute nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N00.6	Acute nephritic syndrome with dense deposit disease	ICD-10-CM
N00.7	Acute nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM
N00.8	Acute nephritic syndrome with other morphologic changes	ICD-10-CM
N00.9	Acute nephritic syndrome with unspecified morphologic changes	ICD-10-CM
N01.0	Rapidly progressive nephritic syndrome with minor glomerular abnormality	ICD-10-CM
N01.1	Rapidly progressive nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM
N01.2	Rapidly progressive nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM
N01.3	Rapidly progressive nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N01.4	Rapidly progressive nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N01.5	Rapidly progressive nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N01.6	Rapidly progressive nephritic syndrome with dense deposit disease	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
N01.7	Rapidly progressive nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM
N01.8	Rapidly progressive nephritic syndrome with other morphologic changes	ICD-10-CM
N01.9	Rapidly progressive nephritic syndrome with unspecified morphologic changes	ICD-10-CM
N02.0	Recurrent and persistent hematuria with minor glomerular abnormality	ICD-10-CM
N02.1	Recurrent and persistent hematuria with focal and segmental glomerular lesions	ICD-10-CM
N02.2	Recurrent and persistent hematuria with diffuse membranous glomerulonephritis	ICD-10-CM
N02.3	Recurrent and persistent hematuria with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N02.4	Recurrent and persistent hematuria with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N02.5	Recurrent and persistent hematuria with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N02.6	Recurrent and persistent hematuria with dense deposit disease	ICD-10-CM
N02.7	Recurrent and persistent hematuria with diffuse crescentic glomerulonephritis	ICD-10-CM
N02.8	Recurrent and persistent hematuria with other morphologic changes	ICD-10-CM
N02.9	Recurrent and persistent hematuria with unspecified morphologic changes	ICD-10-CM
N03.0	Chronic nephritic syndrome with minor glomerular abnormality	ICD-10-CM
N03.1	Chronic nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM
N03.2	Chronic nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM
N03.3	Chronic nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N03.4	Chronic nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N03.5	Chronic nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N03.6	Chronic nephritic syndrome with dense deposit disease	ICD-10-CM
N03.7	Chronic nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM
N03.8	Chronic nephritic syndrome with other morphologic changes	ICD-10-CM
N03.9	Chronic nephritic syndrome with unspecified morphologic changes	ICD-10-CM
N04.0	Nephrotic syndrome with minor glomerular abnormality	ICD-10-CM
N04.1	Nephrotic syndrome with focal and segmental glomerular lesions	ICD-10-CM
N04.2	Nephrotic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM
N04.3	Nephrotic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N04.4	Nephrotic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N04.5	Nephrotic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N04.6	Nephrotic syndrome with dense deposit disease	ICD-10-CM
N04.7	Nephrotic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM
N04.8	Nephrotic syndrome with other morphologic changes	ICD-10-CM
N04.9	Nephrotic syndrome with unspecified morphologic changes	ICD-10-CM
N05.0	Unspecified nephritic syndrome with minor glomerular abnormality	ICD-10-CM
N05.1	Unspecified nephritic syndrome with focal and segmental glomerular lesions	ICD-10-CM
N05.2	Unspecified nephritic syndrome with diffuse membranous glomerulonephritis	ICD-10-CM
N05.3	Unspecified nephritic syndrome with diffuse mesangial proliferative glomerulonephritis	ICD-10-CM
N05.4	Unspecified nephritic syndrome with diffuse endocapillary proliferative glomerulonephritis	ICD-10-CM
N05.5	Unspecified nephritic syndrome with diffuse mesangiocapillary glomerulonephritis	ICD-10-CM
N05.6	Unspecified nephritic syndrome with dense deposit disease	ICD-10-CM
N05.7	Unspecified nephritic syndrome with diffuse crescentic glomerulonephritis	ICD-10-CM
N05.8	Unspecified nephritic syndrome with other morphologic changes	ICD-10-CM
N05.9	Unspecified nephritic syndrome with unspecified morphologic changes	ICD-10-CM

**Appendix B. 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 Events in this Request**

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

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
N18.3	Chronic kidney disease, stage 3 (moderate)	ICD-10-CM
N18.4	Chronic kidney disease, stage 4 (severe)	ICD-10-CM
N18.5	Chronic kidney disease, stage 5	ICD-10-CM
N18.6	End stage renal disease	ICD-10-CM
N18.9	Chronic kidney disease, unspecified	ICD-10-CM
N19	Unspecified kidney failure	ICD-10-CM
N25.0	Renal osteodystrophy	ICD-10-CM
N25.1	Nephrogenic diabetes insipidus	ICD-10-CM
N25.81	Secondary hyperparathyroidism of renal origin	ICD-10-CM
N25.89	Other disorders resulting from impaired renal tubular function	ICD-10-CM
N25.9	Disorder resulting from impaired renal tubular function, unspecified	ICD-10-CM
N26.1	Atrophy of kidney (terminal)	ICD-10-CM
N26.9	Renal sclerosis, unspecified	ICD-10-CM
Q61.02	Congenital multiple renal cysts	ICD-10-CM
Q61.11	Cystic dilatation of collecting ducts	ICD-10-CM
Q61.19	Other polycystic kidney, infantile type	ICD-10-CM
Q61.2	Polycystic kidney, adult type	ICD-10-CM
Q61.3	Polycystic kidney, unspecified	ICD-10-CM
Q61.4	Renal dysplasia	ICD-10-CM
Q61.5	Medullary cystic kidney	ICD-10-CM
Q61.8	Other cystic kidney diseases	ICD-10-CM
Q62.0	Congenital hydronephrosis	ICD-10-CM
Q62.10	Congenital occlusion of ureter, unspecified	ICD-10-CM
Q62.11	Congenital occlusion of ureteropelvic junction	ICD-10-CM
Q62.12	Congenital occlusion of ureterovesical orifice	ICD-10-CM
Q62.2	Congenital megaureter	ICD-10-CM
Q62.31	Congenital ureterocele, orthotopic	ICD-10-CM
Q62.32	Cecoureterocele	ICD-10-CM
Q62.39	Other obstructive defects of renal pelvis and ureter	ICD-10-CM
R94.4	Abnormal results of kidney function studies	ICD-10-CM
<b>Chronic Obstructive Pulmonary Disease and Bronchiectasis</b>		
490	Bronchitis, not specified as acute or chronic	ICD-9-CM
491.0	Simple chronic bronchitis	ICD-9-CM
491.1	Mucopurulent chronic bronchitis	ICD-9-CM
491.20	Obstructive chronic bronchitis, without exacerbation	ICD-9-CM
491.21	Obstructive chronic bronchitis, with (acute) exacerbation	ICD-9-CM
491.22	Obstructive chronic bronchitis with acute bronchitis	ICD-9-CM
491.8	Other chronic bronchitis	ICD-9-CM
491.9	Unspecified chronic bronchitis	ICD-9-CM
492.0	Emphysematous bleb	ICD-9-CM
492.8	Other emphysema	ICD-9-CM
494.0	Bronchiectasis without acute exacerbation	ICD-9-CM
494.1	Bronchiectasis with acute exacerbation	ICD-9-CM

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<b>Code</b>	<b>Description</b>	<b>Code Type</b>
496	Chronic airway obstruction, not elsewhere classified	ICD-9-CM
J40	Bronchitis, not specified as acute or chronic	ICD-10-CM
J41.0	Simple chronic bronchitis	ICD-10-CM
J41.1	Mucopurulent chronic bronchitis	ICD-10-CM
J41.8	Mixed simple and mucopurulent chronic bronchitis	ICD-10-CM
J42	Unspecified chronic bronchitis	ICD-10-CM
J43.0	Unilateral pulmonary emphysema [MacLeod's syndrome]	ICD-10-CM
J43.1	Panlobular emphysema	ICD-10-CM
J43.2	Centrilobular emphysema	ICD-10-CM
J43.8	Other emphysema	ICD-10-CM
J43.9	Emphysema, unspecified	ICD-10-CM
J44.0	Chronic obstructive pulmonary disease with acute lower respiratory infection	ICD-10-CM
J44.1	Chronic obstructive pulmonary disease with (acute) exacerbation	ICD-10-CM
J44.9	Chronic obstructive pulmonary disease, unspecified	ICD-10-CM
J47.0	Bronchiectasis with acute lower respiratory infection	ICD-10-CM
J47.1	Bronchiectasis with (acute) exacerbation	ICD-10-CM
J47.9	Bronchiectasis, uncomplicated	ICD-10-CM
<b>Depression</b>		
296.20	Major depressive disorder, single episode, unspecified	ICD-9-CM
296.21	Major depressive disorder, single episode, mild	ICD-9-CM
296.22	Major depressive disorder, single episode, moderate	ICD-9-CM
296.23	Major depressive disorder, single episode, severe, without mention of psychotic behavior	ICD-9-CM
296.24	Major depressive disorder, single episode, severe, specified as with psychotic behavior	ICD-9-CM
296.25	Major depressive disorder, single episode, in partial or unspecified remission	ICD-9-CM
296.26	Major depressive disorder, single episode in full remission	ICD-9-CM
296.30	Major depressive disorder, recurrent episode, unspecified	ICD-9-CM
296.31	Major depressive disorder, recurrent episode, mild	ICD-9-CM
296.32	Major depressive disorder, recurrent episode, moderate	ICD-9-CM
296.33	Major depressive disorder, recurrent episode, severe, without mention of psychotic behavior	ICD-9-CM
296.34	Major depressive disorder, recurrent episode, severe, specified as with psychotic behavior	ICD-9-CM
296.35	Major depressive disorder, recurrent episode, in partial or unspecified remission	ICD-9-CM
296.36	Major depressive disorder, recurrent episode, in full remission	ICD-9-CM
296.51	Bipolar I disorder, most recent episode (or current) depressed, mild	ICD-9-CM
296.52	Bipolar I disorder, most recent episode (or current) depressed, moderate	ICD-9-CM
296.53	Bipolar I disorder, most recent episode (or current) depressed, severe, without mention of psychotic behavior	ICD-9-CM
296.54	Bipolar I disorder, most recent episode (or current) depressed, severe, specified as with psychotic behavior	ICD-9-CM
296.55	Bipolar I disorder, most recent episode (or current) depressed, in partial or unspecified remission	ICD-9-CM
296.56	Bipolar I disorder, most recent episode (or current) depressed, in full remission	ICD-9-CM
296.60	Bipolar I disorder, most recent episode (or current) mixed, unspecified	ICD-9-CM
296.61	Bipolar I disorder, most recent episode (or current) mixed, mild	ICD-9-CM
296.62	Bipolar I disorder, most recent episode (or current) mixed, moderate	ICD-9-CM



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<b>Code</b>	<b>Description</b>	<b>Code Type</b>
296.63	Bipolar I disorder, most recent episode (or current) mixed, severe, without mention of psychotic behavior	ICD-9-CM
296.64	Bipolar I disorder, most recent episode (or current) mixed, severe, specified as with psychotic behavior	ICD-9-CM
296.65	Bipolar I disorder, most recent episode (or current) mixed, in partial or unspecified remission	ICD-9-CM
296.66	Bipolar I disorder, most recent episode (or current) mixed, in full remission	ICD-9-CM
296.89	Other and unspecified bipolar disorders	ICD-9-CM
298.0	Depressive type psychosis	ICD-9-CM
300.4	Dysthymic disorder	ICD-9-CM
309.1	Prolonged depressive reaction as adjustment reaction	ICD-9-CM
311	Depressive disorder, not elsewhere classified	ICD-9-CM
F31.30	Bipolar disorder, current episode depressed, mild or moderate severity, unspecified	ICD-10-CM
F31.31	Bipolar disorder, current episode depressed, mild	ICD-10-CM
F31.32	Bipolar disorder, current episode depressed, moderate	ICD-10-CM
F31.4	Bipolar disorder, current episode depressed, severe, without psychotic features	ICD-10-CM
F31.5	Bipolar disorder, current episode depressed, severe, with psychotic features	ICD-10-CM
F31.60	Bipolar disorder, current episode mixed, unspecified	ICD-10-CM
F31.61	Bipolar disorder, current episode mixed, mild	ICD-10-CM
F31.62	Bipolar disorder, current episode mixed, moderate	ICD-10-CM
F31.63	Bipolar disorder, current episode mixed, severe, without psychotic features	ICD-10-CM
F31.64	Bipolar disorder, current episode mixed, severe, with psychotic features	ICD-10-CM
F31.75	Bipolar disorder, in partial remission, most recent episode depressed	ICD-10-CM
F31.76	Bipolar disorder, in full remission, most recent episode depressed	ICD-10-CM
F31.77	Bipolar disorder, in partial remission, most recent episode mixed	ICD-10-CM
F31.78	Bipolar disorder, in full remission, most recent episode mixed	ICD-10-CM
F31.81	Bipolar II disorder	ICD-10-CM
F32.0	Major depressive disorder, single episode, mild	ICD-10-CM
F32.1	Major depressive disorder, single episode, moderate	ICD-10-CM
F32.2	Major depressive disorder, single episode, severe without psychotic features	ICD-10-CM
F32.3	Major depressive disorder, single episode, severe with psychotic features	ICD-10-CM
F32.4	Major depressive disorder, single episode, in partial remission	ICD-10-CM
F32.5	Major depressive disorder, single episode, in full remission	ICD-10-CM
F32.9	Major depressive disorder, single episode, unspecified	ICD-10-CM
F33.0	Major depressive disorder, recurrent, mild	ICD-10-CM
F33.1	Major depressive disorder, recurrent, moderate	ICD-10-CM
F33.2	Major depressive disorder, recurrent severe without psychotic features	ICD-10-CM
F33.3	Major depressive disorder, recurrent, severe with psychotic symptoms	ICD-10-CM
F33.40	Major depressive disorder, recurrent, in remission, unspecified	ICD-10-CM
F33.41	Major depressive disorder, recurrent, in partial remission	ICD-10-CM
F33.42	Major depressive disorder, recurrent, in full remission	ICD-10-CM
F33.8	Other recurrent depressive disorders	ICD-10-CM
F33.9	Major depressive disorder, recurrent, unspecified	ICD-10-CM
F34.1	Dysthymic disorder	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
F43.21	Adjustment disorder with depressed mood	ICD-10-CM
F43.23	Adjustment disorder with mixed anxiety and depressed mood	ICD-10-CM
<b>Diabetes</b>		
249.00	Secondary diabetes mellitus without mention of complication, not stated as uncontrolled, or unspecified	ICD-9-CM
249.01	Secondary diabetes mellitus without mention of complication, uncontrolled	ICD-9-CM
249.10	Secondary diabetes mellitus with ketoacidosis, not stated as uncontrolled, or unspecified	ICD-9-CM
249.11	Secondary diabetes mellitus with ketoacidosis, uncontrolled	ICD-9-CM
249.20	Secondary diabetes mellitus with hyperosmolarity, not stated as uncontrolled, or unspecified	ICD-9-CM
249.21	Secondary diabetes mellitus with hyperosmolarity, uncontrolled	ICD-9-CM
249.30	Secondary diabetes mellitus with other coma, not stated as uncontrolled, or unspecified	ICD-9-CM
249.31	Secondary diabetes mellitus with other coma, uncontrolled	ICD-9-CM
249.40	Secondary diabetes mellitus with renal manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
249.41	Secondary diabetes mellitus with renal manifestations, uncontrolled	ICD-9-CM
249.50	Secondary diabetes mellitus with ophthalmic manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
249.51	Secondary diabetes mellitus with ophthalmic manifestations, uncontrolled	ICD-9-CM
249.60	Secondary diabetes mellitus with neurological manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
249.61	Secondary diabetes mellitus with neurological manifestations, uncontrolled	ICD-9-CM
249.70	Secondary diabetes mellitus with peripheral circulatory disorders, not stated as uncontrolled, or unspecified	ICD-9-CM
249.71	Secondary diabetes mellitus with peripheral circulatory disorders, uncontrolled	ICD-9-CM
249.80	Secondary diabetes mellitus with other specified manifestations, not stated as uncontrolled, or unspecified	ICD-9-CM
249.81	Secondary diabetes mellitus with other specified manifestations, uncontrolled	ICD-9-CM
249.90	Secondary diabetes mellitus with unspecified complication, not stated as uncontrolled, or unspecified	ICD-9-CM
249.91	Secondary diabetes mellitus with unspecified complication, uncontrolled	ICD-9-CM
250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled	ICD-9-CM
250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled	ICD-9-CM
250.10	Diabetes with ketoacidosis, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.11	Diabetes with ketoacidosis, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.12	Diabetes with ketoacidosis, type II or unspecified type, uncontrolled	ICD-9-CM
250.13	Diabetes with ketoacidosis, type I [juvenile type], uncontrolled	ICD-9-CM
250.20	Diabetes with hyperosmolarity, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.21	Diabetes with hyperosmolarity, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.22	Diabetes with hyperosmolarity, type II or unspecified type, uncontrolled	ICD-9-CM
250.23	Diabetes with hyperosmolarity, type I [juvenile type], uncontrolled	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
250.30	Diabetes with other coma, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.31	Diabetes with other coma, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.32	Diabetes with other coma, type II or unspecified type, uncontrolled	ICD-9-CM
250.33	Diabetes with other coma, type I [juvenile type], uncontrolled	ICD-9-CM
250.40	Diabetes with renal manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.41	Diabetes with renal manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.42	Diabetes with renal manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
250.43	Diabetes with renal manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
250.60	Diabetes with neurological manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.61	Diabetes with neurological manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.62	Diabetes with neurological manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
250.63	Diabetes with neurological manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
250.70	Diabetes with peripheral circulatory disorders, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.71	Diabetes with peripheral circulatory disorders, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.72	Diabetes with peripheral circulatory disorders, type II or unspecified type, uncontrolled	ICD-9-CM
250.73	Diabetes with peripheral circulatory disorders, type I [juvenile type], uncontrolled	ICD-9-CM
250.80	Diabetes with other specified manifestations, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.81	Diabetes with other specified manifestations, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.82	Diabetes with other specified manifestations, type II or unspecified type, uncontrolled	ICD-9-CM
250.83	Diabetes with other specified manifestations, type I [juvenile type], uncontrolled	ICD-9-CM
250.90	Diabetes with unspecified complication, type II or unspecified type, not stated as uncontrolled	ICD-9-CM
250.91	Diabetes with unspecified complication, type I [juvenile type], not stated as uncontrolled	ICD-9-CM
250.92	Diabetes with unspecified complication, type II or unspecified type, uncontrolled	ICD-9-CM
250.93	Diabetes with unspecified complication, type I [juvenile type], uncontrolled	ICD-9-CM
357.2	Polyneuropathy in diabetes	ICD-9-CM
362.01	Background diabetic retinopathy	ICD-9-CM
362.02	Proliferative diabetic retinopathy	ICD-9-CM
362.03	Nonproliferative diabetic retinopathy NOS	ICD-9-CM
362.04	Mild nonproliferative diabetic retinopathy	ICD-9-CM
362.05	Moderate nonproliferative diabetic retinopathy	ICD-9-CM
362.06	Severe nonproliferative diabetic retinopathy	ICD-9-CM
366.41	Diabetic cataract	ICD-9-CM
E08.00	Diabetes mellitus due to underlying condition with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
E08.01	Diabetes mellitus due to underlying condition with hyperosmolarity with coma	ICD-10-CM
E08.10	Diabetes mellitus due to underlying condition with ketoacidosis without coma	ICD-10-CM
E08.11	Diabetes mellitus due to underlying condition with ketoacidosis with coma	ICD-10-CM
E08.21	Diabetes mellitus due to underlying condition with diabetic nephropathy	ICD-10-CM
E08.22	Diabetes mellitus due to underlying condition with diabetic chronic kidney disease	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E08.29	Diabetes mellitus due to underlying condition with other diabetic kidney complication	ICD-10-CM
E08.311	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy with macular edema	ICD-10-CM
E08.319	Diabetes mellitus due to underlying condition with unspecified diabetic retinopathy without macular edema	ICD-10-CM
E08.321	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E08.3211	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E08.3212	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E08.3213	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E08.3219	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E08.329	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E08.3291	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E08.3292	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E08.3293	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E08.3299	Diabetes mellitus due to underlying condition with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E08.331	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E08.3311	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E08.3312	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E08.3313	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E08.3319	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E08.339	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E08.3392	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E08.3393	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E08.341	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E08.3411	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E08.3412	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E08.3413	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E08.3419	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E08.349	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E08.3491	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E08.3492	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E08.3493	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E08.3499	Diabetes mellitus due to underlying condition with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E08.351	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema	ICD-10-CM
E08.3511	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E08.3512	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E08.3513	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E08.3519	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E08.3521	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
E08.3522	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
E08.3523	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
E08.3529	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	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	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E08.3532	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
E08.3533	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	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	ICD-10-CM
E08.3541	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
E08.3542	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
E08.3543	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
E08.3549	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
E08.3551	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
E08.3552	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
E08.3553	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
E08.3559	Diabetes mellitus due to underlying condition with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
E08.359	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema	ICD-10-CM
E08.3591	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E08.3592	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E08.3593	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E08.3599	Diabetes mellitus due to underlying condition with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E08.36	Diabetes mellitus due to underlying condition with diabetic cataract	ICD-10-CM
E08.37X1	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
E08.37X2	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
E08.37X3	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
E08.37X9	Diabetes mellitus due to underlying condition with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
E08.39	Diabetes mellitus due to underlying condition with other diabetic ophthalmic complication	ICD-10-CM
E08.40	Diabetes mellitus due to underlying condition with diabetic neuropathy, unspecified	ICD-10-CM
E08.41	Diabetes mellitus due to underlying condition with diabetic mononeuropathy	ICD-10-CM
E08.42	Diabetes mellitus due to underlying condition with diabetic polyneuropathy	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E08.43	Diabetes mellitus due to underlying condition with diabetic autonomic (poly)neuropathy	ICD-10-CM
E08.44	Diabetes mellitus due to underlying condition with diabetic amyotrophy	ICD-10-CM
E08.49	Diabetes mellitus due to underlying condition with other diabetic neurological complication	ICD-10-CM
E08.51	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy without gangrene	ICD-10-CM
E08.52	Diabetes mellitus due to underlying condition with diabetic peripheral angiopathy with gangrene	ICD-10-CM
E08.59	Diabetes mellitus due to underlying condition with other circulatory complications	ICD-10-CM
E08.610	Diabetes mellitus due to underlying condition with diabetic neuropathic arthropathy	ICD-10-CM
E08.618	Diabetes mellitus due to underlying condition with other diabetic arthropathy	ICD-10-CM
E08.620	Diabetes mellitus due to underlying condition with diabetic dermatitis	ICD-10-CM
E08.621	Diabetes mellitus due to underlying condition with foot ulcer	ICD-10-CM
E08.622	Diabetes mellitus due to underlying condition with other skin ulcer	ICD-10-CM
E08.628	Diabetes mellitus due to underlying condition with other skin complications	ICD-10-CM
E08.630	Diabetes mellitus due to underlying condition with periodontal disease	ICD-10-CM
E08.638	Diabetes mellitus due to underlying condition with other oral complications	ICD-10-CM
E08.641	Diabetes mellitus due to underlying condition with hypoglycemia with coma	ICD-10-CM
E08.649	Diabetes mellitus due to underlying condition with hypoglycemia without coma	ICD-10-CM
E08.65	Diabetes mellitus due to underlying condition with hyperglycemia	ICD-10-CM
E08.69	Diabetes mellitus due to underlying condition with other specified complication	ICD-10-CM
E08.8	Diabetes mellitus due to underlying condition with unspecified complications	ICD-10-CM
E08.9	Diabetes mellitus due to underlying condition without complications	ICD-10-CM
E09.00	Drug or chemical induced diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
E09.01	Drug or chemical induced diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
E09.10	Drug or chemical induced diabetes mellitus with ketoacidosis without coma	ICD-10-CM
E09.11	Drug or chemical induced diabetes mellitus with ketoacidosis with coma	ICD-10-CM
E09.21	Drug or chemical induced diabetes mellitus with diabetic nephropathy	ICD-10-CM
E09.22	Drug or chemical induced diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E09.29	Drug or chemical induced diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E09.311	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
E09.319	Drug or chemical induced diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
E09.321	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E09.3211	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E09.3212	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E09.3213	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E09.3219	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E09.329	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E09.3291	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E09.3292	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E09.3293	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E09.3299	Drug or chemical induced diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E09.331	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E09.3311	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E09.3312	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E09.3313	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E09.3319	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E09.339	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E09.3392	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E09.3393	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E09.3399	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E09.341	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E09.3411	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E09.3412	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E09.3413	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E09.3419	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E09.349	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E09.3491	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E09.3492	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E09.3493	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E09.3499	Drug or chemical induced diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E09.351	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
E09.3511	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E09.3512	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E09.3513	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E09.3519	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E09.3521	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
E09.3522	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
E09.3523	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
E09.3529	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	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	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	ICD-10-CM
E09.3533	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	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	ICD-10-CM
E09.3541	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
E09.3542	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
E09.3543	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
E09.3549	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E09.3551	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
E09.3552	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
E09.3553	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
E09.3559	Drug or chemical induced diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
E09.359	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
E09.3591	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E09.3592	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E09.3593	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E09.3599	Drug or chemical induced diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E09.36	Drug or chemical induced diabetes mellitus with diabetic cataract	ICD-10-CM
E09.37X1	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
E09.37X2	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
E09.37X3	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
E09.37X9	Drug or chemical induced diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
E09.39	Drug or chemical induced diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
E09.40	Drug or chemical induced diabetes mellitus with neurological complications with diabetic neuropathy, unspecified	ICD-10-CM
E09.41	Drug or chemical induced diabetes mellitus with neurological complications with diabetic mononeuropathy	ICD-10-CM
E09.42	Drug or chemical induced diabetes mellitus with neurological complications with diabetic polyneuropathy	ICD-10-CM
E09.43	Drug or chemical induced diabetes mellitus with neurological complications with diabetic autonomic (poly)neuropathy	ICD-10-CM
E09.44	Drug or chemical induced diabetes mellitus with neurological complications with diabetic amyotrophy	ICD-10-CM
E09.49	Drug or chemical induced diabetes mellitus with neurological complications with other diabetic neurological complication	ICD-10-CM
E09.51	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
E09.52	Drug or chemical induced diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
E09.59	Drug or chemical induced diabetes mellitus with other circulatory complications	ICD-10-CM
E09.610	Drug or chemical induced diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
E09.618	Drug or chemical induced diabetes mellitus with other diabetic arthropathy	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E09.620	Drug or chemical induced diabetes mellitus with diabetic dermatitis	ICD-10-CM
E09.621	Drug or chemical induced diabetes mellitus with foot ulcer	ICD-10-CM
E09.622	Drug or chemical induced diabetes mellitus with other skin ulcer	ICD-10-CM
E09.628	Drug or chemical induced diabetes mellitus with other skin complications	ICD-10-CM
E09.630	Drug or chemical induced diabetes mellitus with periodontal disease	ICD-10-CM
E09.638	Drug or chemical induced diabetes mellitus with other oral complications	ICD-10-CM
E09.641	Drug or chemical induced diabetes mellitus with hypoglycemia with coma	ICD-10-CM
E09.649	Drug or chemical induced diabetes mellitus with hypoglycemia without coma	ICD-10-CM
E09.65	Drug or chemical induced diabetes mellitus with hyperglycemia	ICD-10-CM
E09.69	Drug or chemical induced diabetes mellitus with other specified complication	ICD-10-CM
E09.8	Drug or chemical induced diabetes mellitus with unspecified complications	ICD-10-CM
E09.9	Drug or chemical induced diabetes mellitus without complications	ICD-10-CM
E10.10	Type 1 diabetes mellitus with ketoacidosis without coma	ICD-10-CM
E10.11	Type 1 diabetes mellitus with ketoacidosis with coma	ICD-10-CM
E10.21	Type 1 diabetes mellitus with diabetic nephropathy	ICD-10-CM
E10.22	Type 1 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E10.29	Type 1 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E10.311	Type 1 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
E10.319	Type 1 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
E10.321	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E10.3211	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E10.3212	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E10.3213	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E10.3219	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E10.329	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E10.3291	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E10.3292	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E10.3293	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E10.3299	Type 1 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E10.331	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E10.3311	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E10.3312	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E10.3313	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E10.3319	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E10.339	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E10.3391	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E10.3392	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E10.3393	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E10.3399	Type 1 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E10.341	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E10.3411	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E10.3412	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E10.3413	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E10.3419	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E10.349	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E10.3491	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E10.3492	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E10.3493	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E10.3499	Type 1 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E10.351	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
E10.3511	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E10.3512	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E10.3513	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E10.3519	Type 1 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E10.359	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
E10.36	Type 1 diabetes mellitus with diabetic cataract	ICD-10-CM
E10.37X1	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
E10.37X2	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E10.37X3	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
E10.37X9	Type 1 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
E10.39	Type 1 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
E10.40	Type 1 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
E10.41	Type 1 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
E10.42	Type 1 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
E10.43	Type 1 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
E10.44	Type 1 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
E10.49	Type 1 diabetes mellitus with other diabetic neurological complication	ICD-10-CM
E10.51	Type 1 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
E10.52	Type 1 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
E10.59	Type 1 diabetes mellitus with other circulatory complications	ICD-10-CM
E10.610	Type 1 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
E10.618	Type 1 diabetes mellitus with other diabetic arthropathy	ICD-10-CM
E10.620	Type 1 diabetes mellitus with diabetic dermatitis	ICD-10-CM
E10.621	Type 1 diabetes mellitus with foot ulcer	ICD-10-CM
E10.622	Type 1 diabetes mellitus with other skin ulcer	ICD-10-CM
E10.628	Type 1 diabetes mellitus with other skin complications	ICD-10-CM
E10.630	Type 1 diabetes mellitus with periodontal disease	ICD-10-CM
E10.638	Type 1 diabetes mellitus with other oral complications	ICD-10-CM
E10.641	Type 1 diabetes mellitus with hypoglycemia with coma	ICD-10-CM
E10.649	Type 1 diabetes mellitus with hypoglycemia without coma	ICD-10-CM
E10.65	Type 1 diabetes mellitus with hyperglycemia	ICD-10-CM
E10.69	Type 1 diabetes mellitus with other specified complication	ICD-10-CM
E10.8	Type 1 diabetes mellitus with unspecified complications	ICD-10-CM
E10.9	Type 1 diabetes mellitus without complications	ICD-10-CM
E11.00	Type 2 diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
E11.01	Type 2 diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
E11.10	Type 2 diabetes mellitus with ketoacidosis without coma	ICD-10-CM
E11.11	Type 2 diabetes mellitus with ketoacidosis with coma	ICD-10-CM
E11.21	Type 2 diabetes mellitus with diabetic nephropathy	ICD-10-CM
E11.22	Type 2 diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E11.29	Type 2 diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E11.311	Type 2 diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
E11.319	Type 2 diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
E11.321	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E11.3211	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E11.3212	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E11.3213	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E11.3219	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E11.329	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E11.3291	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E11.3292	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E11.3293	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E11.3299	Type 2 diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E11.331	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E11.3311	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E11.3312	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E11.3313	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E11.339	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E11.3391	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E11.3392	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E11.3393	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E11.3399	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E11.341	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E11.3411	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E11.3412	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E11.3413	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E11.3419	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E11.349	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E11.3491	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E11.3492	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E11.3493	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E11.3499	Type 2 diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E11.351	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
E11.3511	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E11.3512	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E11.3513	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E11.3519	Type 2 diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E11.3521	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
E11.3522	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
E11.3523	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
E11.3529	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
E11.3531	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
E11.3532	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM
E11.3533	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
E11.3539	Type 2 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
E11.3541	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
E11.3542	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
E11.3543	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
E11.3549	Type 2 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
E11.3551	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
E11.3552	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
E11.3553	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
E11.359	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
E11.3591	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E11.3592	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E11.3593	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E11.3599	Type 2 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E11.36	Type 2 diabetes mellitus with diabetic cataract	ICD-10-CM
E11.37X1	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, right eye	ICD-10-CM
E11.37X2	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, left eye	ICD-10-CM
E11.37X3	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral	ICD-10-CM
E11.37X9	Type 2 diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye	ICD-10-CM
E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
E11.40	Type 2 diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
E11.41	Type 2 diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
E11.42	Type 2 diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
E11.43	Type 2 diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
E11.44	Type 2 diabetes mellitus with diabetic amyotrophy	ICD-10-CM
E11.49	Type 2 diabetes mellitus with other diabetic neurological complication	ICD-10-CM
E11.51	Type 2 diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
E11.52	Type 2 diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
E11.59	Type 2 diabetes mellitus with other circulatory complications	ICD-10-CM
E11.610	Type 2 diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
E11.618	Type 2 diabetes mellitus with other diabetic arthropathy	ICD-10-CM
E11.620	Type 2 diabetes mellitus with diabetic dermatitis	ICD-10-CM
E11.621	Type 2 diabetes mellitus with foot ulcer	ICD-10-CM
E11.622	Type 2 diabetes mellitus with other skin ulcer	ICD-10-CM
E11.628	Type 2 diabetes mellitus with other skin complications	ICD-10-CM
E11.630	Type 2 diabetes mellitus with periodontal disease	ICD-10-CM
E11.638	Type 2 diabetes mellitus with other oral complications	ICD-10-CM
E11.641	Type 2 diabetes mellitus with hypoglycemia with coma	ICD-10-CM
E11.649	Type 2 diabetes mellitus with hypoglycemia without coma	ICD-10-CM
E11.65	Type 2 diabetes mellitus with hyperglycemia	ICD-10-CM
E11.69	Type 2 diabetes mellitus with other specified complication	ICD-10-CM
E11.8	Type 2 diabetes mellitus with unspecified complications	ICD-10-CM
E11.9	Type 2 diabetes mellitus without complications	ICD-10-CM
E13.00	Other specified diabetes mellitus with hyperosmolarity without nonketotic hyperglycemic-hyperosmolar coma (NKHHC)	ICD-10-CM
E13.01	Other specified diabetes mellitus with hyperosmolarity with coma	ICD-10-CM
E13.10	Other specified diabetes mellitus with ketoacidosis without coma	ICD-10-CM
E13.11	Other specified diabetes mellitus with ketoacidosis with coma	ICD-10-CM
E13.21	Other specified diabetes mellitus with diabetic nephropathy	ICD-10-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E13.22	Other specified diabetes mellitus with diabetic chronic kidney disease	ICD-10-CM
E13.29	Other specified diabetes mellitus with other diabetic kidney complication	ICD-10-CM
E13.311	Other specified diabetes mellitus with unspecified diabetic retinopathy with macular edema	ICD-10-CM
E13.319	Other specified diabetes mellitus with unspecified diabetic retinopathy without macular edema	ICD-10-CM
E13.321	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E13.3211	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E13.3212	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E13.3213	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E13.3219	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E13.329	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E13.3291	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E13.3292	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E13.3293	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E13.3299	Other specified diabetes mellitus with mild nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E13.331	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E13.3311	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E13.3312	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E13.3313	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E13.3319	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E13.339	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E13.3391	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E13.3392	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E13.3393	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E13.341	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema	ICD-10-CM
E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E13.3412	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E13.3413	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E13.3419	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E13.349	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema	ICD-10-CM
E13.3491	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, right eye	ICD-10-CM
E13.3492	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, left eye	ICD-10-CM
E13.3493	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, bilateral	ICD-10-CM
E13.3499	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy without macular edema, unspecified eye	ICD-10-CM
E13.351	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema	ICD-10-CM
E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye	ICD-10-CM
E13.3512	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, left eye	ICD-10-CM
E13.3513	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, bilateral	ICD-10-CM
E13.3519	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, unspecified eye	ICD-10-CM
E13.3521	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye	ICD-10-CM
E13.3522	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye	ICD-10-CM
E13.3523	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral	ICD-10-CM
E13.3529	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye	ICD-10-CM
E13.3531	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye	ICD-10-CM
E13.3532	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
E13.3533	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral	ICD-10-CM
E13.3539	Other specified diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye	ICD-10-CM
E13.3541	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye	ICD-10-CM
E13.3542	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye	ICD-10-CM
E13.3543	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral	ICD-10-CM
E13.3549	Other specified diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye	ICD-10-CM
E13.3551	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, right eye	ICD-10-CM
E13.3552	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, left eye	ICD-10-CM
E13.3553	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, bilateral	ICD-10-CM
E13.3559	Other specified diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye	ICD-10-CM
E13.359	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema	ICD-10-CM
E13.36	Other specified diabetes mellitus with diabetic cataract	ICD-10-CM
E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication	ICD-10-CM
E13.40	Other specified diabetes mellitus with diabetic neuropathy, unspecified	ICD-10-CM
E13.41	Other specified diabetes mellitus with diabetic mononeuropathy	ICD-10-CM
E13.42	Other specified diabetes mellitus with diabetic polyneuropathy	ICD-10-CM
E13.43	Other specified diabetes mellitus with diabetic autonomic (poly)neuropathy	ICD-10-CM
E13.44	Other specified diabetes mellitus with diabetic amyotrophy	ICD-10-CM
E13.49	Other specified diabetes mellitus with other diabetic neurological complication	ICD-10-CM
E13.51	Other specified diabetes mellitus with diabetic peripheral angiopathy without gangrene	ICD-10-CM
E13.52	Other specified diabetes mellitus with diabetic peripheral angiopathy with gangrene	ICD-10-CM
E13.59	Other specified diabetes mellitus with other circulatory complications	ICD-10-CM
E13.610	Other specified diabetes mellitus with diabetic neuropathic arthropathy	ICD-10-CM
E13.618	Other specified diabetes mellitus with other diabetic arthropathy	ICD-10-CM
E13.620	Other specified diabetes mellitus with diabetic dermatitis	ICD-10-CM
E13.621	Other specified diabetes mellitus with foot ulcer	ICD-10-CM
E13.622	Other specified diabetes mellitus with other skin ulcer	ICD-10-CM
E13.628	Other specified diabetes mellitus with other skin complications	ICD-10-CM
E13.630	Other specified diabetes mellitus with periodontal disease	ICD-10-CM
E13.638	Other specified diabetes mellitus with other oral complications	ICD-10-CM
E13.641	Other specified diabetes mellitus with hypoglycemia with coma	ICD-10-CM
E13.649	Other specified diabetes mellitus with hypoglycemia without coma	ICD-10-CM
E13.65	Other specified diabetes mellitus with hyperglycemia	ICD-10-CM
E13.69	Other specified diabetes mellitus with other specified complication	ICD-10-CM
E13.8	Other specified diabetes mellitus with unspecified complications	ICD-10-CM
E13.9	Other specified diabetes mellitus without complications	ICD-10-CM

**Appendix B. 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 Events in this Request**

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

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.013	Open angle with borderline findings, low risk, bilateral	ICD-10-CM
H40.019	Open angle with borderline findings, low risk, unspecified eye	ICD-10-CM
H40.031	Anatomical narrow angle, right eye	ICD-10-CM
H40.032	Anatomical narrow angle, left eye	ICD-10-CM
H40.033	Anatomical narrow angle, bilateral	ICD-10-CM
H40.039	Anatomical narrow angle, unspecified eye	ICD-10-CM
H40.041	Steroid responder, right eye	ICD-10-CM
H40.042	Steroid responder, left eye	ICD-10-CM
H40.043	Steroid responder, bilateral	ICD-10-CM
H40.049	Steroid responder, unspecified eye	ICD-10-CM
H40.051	Ocular hypertension, right eye	ICD-10-CM
H40.052	Ocular hypertension, left eye	ICD-10-CM
H40.053	Ocular hypertension, bilateral	ICD-10-CM
H40.059	Ocular hypertension, unspecified eye	ICD-10-CM
H40.10X0	Unspecified open-angle glaucoma, stage unspecified	ICD-10-CM
H40.10X1	Unspecified open-angle glaucoma, mild stage	ICD-10-CM
H40.10X2	Unspecified open-angle glaucoma, moderate stage	ICD-10-CM
H40.10X3	Unspecified open-angle glaucoma, severe stage	ICD-10-CM
H40.10X4	Unspecified open-angle glaucoma, indeterminate stage	ICD-10-CM
H40.1110	Primary open-angle glaucoma, right eye, stage unspecified	ICD-10-CM
H40.1111	Primary open-angle glaucoma, right eye, mild stage	ICD-10-CM
H40.1112	Primary open-angle glaucoma, right eye, moderate stage	ICD-10-CM
H40.1113	Primary open-angle glaucoma, right eye, severe stage	ICD-10-CM
H40.1114	Primary open-angle glaucoma, right eye, indeterminate stage	ICD-10-CM
H40.1120	Primary open-angle glaucoma, left eye, stage unspecified	ICD-10-CM
H40.1121	Primary open-angle glaucoma, left eye, mild stage	ICD-10-CM
H40.1122	Primary open-angle glaucoma, left eye, moderate stage	ICD-10-CM
H40.1123	Primary open-angle glaucoma, left eye, severe stage	ICD-10-CM
H40.1124	Primary open-angle glaucoma, left eye, indeterminate stage	ICD-10-CM
H40.1130	Primary open-angle glaucoma, bilateral, stage unspecified	ICD-10-CM
H40.1131	Primary open-angle glaucoma, bilateral, mild stage	ICD-10-CM
H40.1132	Primary open-angle glaucoma, bilateral, moderate stage	ICD-10-CM
H40.1133	Primary open-angle glaucoma, bilateral, severe stage	ICD-10-CM
H40.1134	Primary open-angle glaucoma, bilateral, indeterminate stage	ICD-10-CM
H40.1190	Primary open-angle glaucoma, unspecified eye, stage unspecified	ICD-10-CM
H40.1191	Primary open-angle glaucoma, unspecified eye, mild stage	ICD-10-CM
H40.1192	Primary open-angle glaucoma, unspecified eye, moderate stage	ICD-10-CM
H40.1193	Primary open-angle glaucoma, unspecified eye, severe stage	ICD-10-CM
H40.1194	Primary open-angle glaucoma, unspecified eye, indeterminate stage	ICD-10-CM
H40.11X0	Primary open-angle glaucoma, stage unspecified	ICD-10-CM
H40.11X1	Primary open-angle glaucoma, mild stage	ICD-10-CM
H40.11X2	Primary open-angle glaucoma, moderate stage	ICD-10-CM
H40.11X3	Primary open-angle glaucoma, severe stage	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.11X4	Primary open-angle glaucoma, indeterminate stage	ICD-10-CM
H40.1210	Low-tension glaucoma, right eye, stage unspecified	ICD-10-CM
H40.1211	Low-tension glaucoma, right eye, mild stage	ICD-10-CM
H40.1212	Low-tension glaucoma, right eye, moderate stage	ICD-10-CM
H40.1213	Low-tension glaucoma, right eye, severe stage	ICD-10-CM
H40.1214	Low-tension glaucoma, right eye, indeterminate stage	ICD-10-CM
H40.1220	Low-tension glaucoma, left eye, stage unspecified	ICD-10-CM
H40.1221	Low-tension glaucoma, left eye, mild stage	ICD-10-CM
H40.1222	Low-tension glaucoma, left eye, moderate stage	ICD-10-CM
H40.1223	Low-tension glaucoma, left eye, severe stage	ICD-10-CM
H40.1224	Low-tension glaucoma, left eye, indeterminate stage	ICD-10-CM
H40.1230	Low-tension glaucoma, bilateral, stage unspecified	ICD-10-CM
H40.1231	Low-tension glaucoma, bilateral, mild stage	ICD-10-CM
H40.1232	Low-tension glaucoma, bilateral, moderate stage	ICD-10-CM
H40.1233	Low-tension glaucoma, bilateral, severe stage	ICD-10-CM
H40.1234	Low-tension glaucoma, bilateral, indeterminate stage	ICD-10-CM
H40.1290	Low-tension glaucoma, unspecified eye, stage unspecified	ICD-10-CM
H40.1291	Low-tension glaucoma, unspecified eye, mild stage	ICD-10-CM
H40.1292	Low-tension glaucoma, unspecified eye, moderate stage	ICD-10-CM
H40.1293	Low-tension glaucoma, unspecified eye, severe stage	ICD-10-CM
H40.1294	Low-tension glaucoma, unspecified eye, indeterminate stage	ICD-10-CM
H40.1310	Pigmentary glaucoma, right eye, stage unspecified	ICD-10-CM
H40.1311	Pigmentary glaucoma, right eye, mild stage	ICD-10-CM
H40.1312	Pigmentary glaucoma, right eye, moderate stage	ICD-10-CM
H40.1313	Pigmentary glaucoma, right eye, severe stage	ICD-10-CM
H40.1314	Pigmentary glaucoma, right eye, indeterminate stage	ICD-10-CM
H40.1320	Pigmentary glaucoma, left eye, stage unspecified	ICD-10-CM
H40.1321	Pigmentary glaucoma, left eye, mild stage	ICD-10-CM
H40.1322	Pigmentary glaucoma, left eye, moderate stage	ICD-10-CM
H40.1323	Pigmentary glaucoma, left eye, severe stage	ICD-10-CM
H40.1324	Pigmentary glaucoma, left eye, indeterminate stage	ICD-10-CM
H40.1330	Pigmentary glaucoma, bilateral, stage unspecified	ICD-10-CM
H40.1331	Pigmentary glaucoma, bilateral, mild stage	ICD-10-CM
H40.1332	Pigmentary glaucoma, bilateral, moderate stage	ICD-10-CM
H40.1333	Pigmentary glaucoma, bilateral, severe stage	ICD-10-CM
H40.1334	Pigmentary glaucoma, bilateral, indeterminate stage	ICD-10-CM
H40.1390	Pigmentary glaucoma, unspecified eye, stage unspecified	ICD-10-CM
H40.1391	Pigmentary glaucoma, unspecified eye, mild stage	ICD-10-CM
H40.1392	Pigmentary glaucoma, unspecified eye, moderate stage	ICD-10-CM
H40.1393	Pigmentary glaucoma, unspecified eye, severe stage	ICD-10-CM
H40.1394	Pigmentary glaucoma, unspecified eye, indeterminate stage	ICD-10-CM
H40.1410	Capsular glaucoma with pseudoexfoliation of lens, right eye, stage unspecified	ICD-10-CM
H40.1411	Capsular glaucoma with pseudoexfoliation of lens, right eye, mild stage	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.1412	Capsular glaucoma with pseudoexfoliation of lens, right eye, moderate stage	ICD-10-CM
H40.1413	Capsular glaucoma with pseudoexfoliation of lens, right eye, severe stage	ICD-10-CM
H40.1414	Capsular glaucoma with pseudoexfoliation of lens, right eye, indeterminate stage	ICD-10-CM
H40.1420	Capsular glaucoma with pseudoexfoliation of lens, left eye, stage unspecified	ICD-10-CM
H40.1421	Capsular glaucoma with pseudoexfoliation of lens, left eye, mild stage	ICD-10-CM
H40.1422	Capsular glaucoma with pseudoexfoliation of lens, left eye, moderate stage	ICD-10-CM
H40.1423	Capsular glaucoma with pseudoexfoliation of lens, left eye, severe stage	ICD-10-CM
H40.1424	Capsular glaucoma with pseudoexfoliation of lens, left eye, indeterminate stage	ICD-10-CM
H40.1430	Capsular glaucoma with pseudoexfoliation of lens, bilateral, stage unspecified	ICD-10-CM
H40.1431	Capsular glaucoma with pseudoexfoliation of lens, bilateral, mild stage	ICD-10-CM
H40.1432	Capsular glaucoma with pseudoexfoliation of lens, bilateral, moderate stage	ICD-10-CM
H40.1433	Capsular glaucoma with pseudoexfoliation of lens, bilateral, severe stage	ICD-10-CM
H40.1434	Capsular glaucoma with pseudoexfoliation of lens, bilateral, indeterminate stage	ICD-10-CM
H40.1490	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, stage unspecified	ICD-10-CM
H40.1491	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, mild stage	ICD-10-CM
H40.1492	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, moderate stage	ICD-10-CM
H40.1493	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, severe stage	ICD-10-CM
H40.1494	Capsular glaucoma with pseudoexfoliation of lens, unspecified eye, indeterminate stage	ICD-10-CM
H40.151	Residual stage of open-angle glaucoma, right eye	ICD-10-CM
H40.152	Residual stage of open-angle glaucoma, left eye	ICD-10-CM
H40.153	Residual stage of open-angle glaucoma, bilateral	ICD-10-CM
H40.159	Residual stage of open-angle glaucoma, unspecified eye	ICD-10-CM
H40.20X0	Unspecified primary angle-closure glaucoma, stage unspecified	ICD-10-CM
H40.20X1	Unspecified primary angle-closure glaucoma, mild stage	ICD-10-CM
H40.20X2	Unspecified primary angle-closure glaucoma, moderate stage	ICD-10-CM
H40.20X3	Unspecified primary angle-closure glaucoma, severe stage	ICD-10-CM
H40.20X4	Unspecified primary angle-closure glaucoma, indeterminate stage	ICD-10-CM
H40.211	Acute angle-closure glaucoma, right eye	ICD-10-CM
H40.212	Acute angle-closure glaucoma, left eye	ICD-10-CM
H40.213	Acute angle-closure glaucoma, bilateral	ICD-10-CM
H40.219	Acute angle-closure glaucoma, unspecified eye	ICD-10-CM
H40.2210	Chronic angle-closure glaucoma, right eye, stage unspecified	ICD-10-CM
H40.2211	Chronic angle-closure glaucoma, right eye, mild stage	ICD-10-CM
H40.2212	Chronic angle-closure glaucoma, right eye, moderate stage	ICD-10-CM
H40.2213	Chronic angle-closure glaucoma, right eye, severe stage	ICD-10-CM
H40.2214	Chronic angle-closure glaucoma, right eye, indeterminate stage	ICD-10-CM
H40.2220	Chronic angle-closure glaucoma, left eye, stage unspecified	ICD-10-CM
H40.2221	Chronic angle-closure glaucoma, left eye, mild stage	ICD-10-CM
H40.2222	Chronic angle-closure glaucoma, left eye, moderate stage	ICD-10-CM
H40.2223	Chronic angle-closure glaucoma, left eye, severe stage	ICD-10-CM
H40.2224	Chronic angle-closure glaucoma, left eye, indeterminate stage	ICD-10-CM
H40.2230	Chronic angle-closure glaucoma, bilateral, stage unspecified	ICD-10-CM
H40.2231	Chronic angle-closure glaucoma, bilateral, mild stage	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.2232	Chronic angle-closure glaucoma, bilateral, moderate stage	ICD-10-CM
H40.2233	Chronic angle-closure glaucoma, bilateral, severe stage	ICD-10-CM
H40.2234	Chronic angle-closure glaucoma, bilateral, indeterminate stage	ICD-10-CM
H40.2290	Chronic angle-closure glaucoma, unspecified eye, stage unspecified	ICD-10-CM
H40.2291	Chronic angle-closure glaucoma, unspecified eye, mild stage	ICD-10-CM
H40.2292	Chronic angle-closure glaucoma, unspecified eye, moderate stage	ICD-10-CM
H40.2293	Chronic angle-closure glaucoma, unspecified eye, severe stage	ICD-10-CM
H40.2294	Chronic angle-closure glaucoma, unspecified eye, indeterminate stage	ICD-10-CM
H40.231	Intermittent angle-closure glaucoma, right eye	ICD-10-CM
H40.232	Intermittent angle-closure glaucoma, left eye	ICD-10-CM
H40.233	Intermittent angle-closure glaucoma, bilateral	ICD-10-CM
H40.239	Intermittent angle-closure glaucoma, unspecified eye	ICD-10-CM
H40.241	Residual stage of angle-closure glaucoma, right eye	ICD-10-CM
H40.242	Residual stage of angle-closure glaucoma, left eye	ICD-10-CM
H40.243	Residual stage of angle-closure glaucoma, bilateral	ICD-10-CM
H40.249	Residual stage of angle-closure glaucoma, unspecified eye	ICD-10-CM
H40.30X0	Glaucoma secondary to eye trauma, unspecified eye, stage unspecified	ICD-10-CM
H40.30X1	Glaucoma secondary to eye trauma, unspecified eye, mild stage	ICD-10-CM
H40.30X2	Glaucoma secondary to eye trauma, unspecified eye, moderate stage	ICD-10-CM
H40.30X3	Glaucoma secondary to eye trauma, unspecified eye, severe stage	ICD-10-CM
H40.30X4	Glaucoma secondary to eye trauma, unspecified eye, indeterminate stage	ICD-10-CM
H40.31X0	Glaucoma secondary to eye trauma, right eye, stage unspecified	ICD-10-CM
H40.31X1	Glaucoma secondary to eye trauma, right eye, mild stage	ICD-10-CM
H40.31X2	Glaucoma secondary to eye trauma, right eye, moderate stage	ICD-10-CM
H40.31X3	Glaucoma secondary to eye trauma, right eye, severe stage	ICD-10-CM
H40.31X4	Glaucoma secondary to eye trauma, right eye, indeterminate stage	ICD-10-CM
H40.32X0	Glaucoma secondary to eye trauma, left eye, stage unspecified	ICD-10-CM
H40.32X1	Glaucoma secondary to eye trauma, left eye, mild stage	ICD-10-CM
H40.32X2	Glaucoma secondary to eye trauma, left eye, moderate stage	ICD-10-CM
H40.32X3	Glaucoma secondary to eye trauma, left eye, severe stage	ICD-10-CM
H40.33X0	Glaucoma secondary to eye trauma, bilateral, stage unspecified	ICD-10-CM
H40.33X1	Glaucoma secondary to eye trauma, bilateral, mild stage	ICD-10-CM
H40.33X2	Glaucoma secondary to eye trauma, bilateral, moderate stage	ICD-10-CM
H40.33X3	Glaucoma secondary to eye trauma, bilateral, severe stage	ICD-10-CM
H40.33X4	Glaucoma secondary to eye trauma, bilateral, indeterminate stage	ICD-10-CM
H40.40X0	Glaucoma secondary to eye inflammation, unspecified eye, stage unspecified	ICD-10-CM
H40.40X1	Glaucoma secondary to eye inflammation, unspecified eye, mild stage	ICD-10-CM
H40.40X2	Glaucoma secondary to eye inflammation, unspecified eye, moderate stage	ICD-10-CM
H40.40X3	Glaucoma secondary to eye inflammation, unspecified eye, severe stage	ICD-10-CM
H40.40X4	Glaucoma secondary to eye inflammation, unspecified eye, indeterminate stage	ICD-10-CM
H40.41X0	Glaucoma secondary to eye inflammation, right eye, stage unspecified	ICD-10-CM
H40.41X1	Glaucoma secondary to eye inflammation, right eye, mild stage	ICD-10-CM
H40.41X2	Glaucoma secondary to eye inflammation, right eye, moderate stage	ICD-10-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.41X3	Glaucoma secondary to eye inflammation, right eye, severe stage	ICD-10-CM
H40.41X4	Glaucoma secondary to eye inflammation, right eye, indeterminate stage	ICD-10-CM
H40.42X0	Glaucoma secondary to eye inflammation, left eye, stage unspecified	ICD-10-CM
H40.42X1	Glaucoma secondary to eye inflammation, left eye, mild stage	ICD-10-CM
H40.42X2	Glaucoma secondary to eye inflammation, left eye, moderate stage	ICD-10-CM
H40.42X3	Glaucoma secondary to eye inflammation, left eye, severe stage	ICD-10-CM
H40.42X4	Glaucoma secondary to eye inflammation, left eye, indeterminate stage	ICD-10-CM
H40.43X0	Glaucoma secondary to eye inflammation, bilateral, stage unspecified	ICD-10-CM
H40.43X1	Glaucoma secondary to eye inflammation, bilateral, mild stage	ICD-10-CM
H40.43X2	Glaucoma secondary to eye inflammation, bilateral, moderate stage	ICD-10-CM
H40.43X3	Glaucoma secondary to eye inflammation, bilateral, severe stage	ICD-10-CM
H40.43X4	Glaucoma secondary to eye inflammation, bilateral, indeterminate stage	ICD-10-CM
H40.50X0	Glaucoma secondary to other eye disorders, unspecified eye, stage unspecified	ICD-10-CM
H40.50X1	Glaucoma secondary to other eye disorders, unspecified eye, mild stage	ICD-10-CM
H40.50X2	Glaucoma secondary to other eye disorders, unspecified eye, moderate stage	ICD-10-CM
H40.50X3	Glaucoma secondary to other eye disorders, unspecified eye, severe stage	ICD-10-CM
H40.50X4	Glaucoma secondary to other eye disorders, unspecified eye, indeterminate stage	ICD-10-CM
H40.51X0	Glaucoma secondary to other eye disorders, right eye, stage unspecified	ICD-10-CM
H40.51X1	Glaucoma secondary to other eye disorders, right eye, mild stage	ICD-10-CM
H40.51X2	Glaucoma secondary to other eye disorders, right eye, moderate stage	ICD-10-CM
H40.51X3	Glaucoma secondary to other eye disorders, right eye, severe stage	ICD-10-CM
H40.51X4	Glaucoma secondary to other eye disorders, right eye, indeterminate stage	ICD-10-CM
H40.52X0	Glaucoma secondary to other eye disorders, left eye, stage unspecified	ICD-10-CM
H40.52X1	Glaucoma secondary to other eye disorders, left eye, mild stage	ICD-10-CM
H40.52X2	Glaucoma secondary to other eye disorders, left eye, moderate stage	ICD-10-CM
H40.52X3	Glaucoma secondary to other eye disorders, left eye, severe stage	ICD-10-CM
H40.52X4	Glaucoma secondary to other eye disorders, left eye, indeterminate stage	ICD-10-CM
H40.53X0	Glaucoma secondary to other eye disorders, bilateral, stage unspecified	ICD-10-CM
H40.53X1	Glaucoma secondary to other eye disorders, bilateral, mild stage	ICD-10-CM
H40.53X2	Glaucoma secondary to other eye disorders, bilateral, moderate stage	ICD-10-CM
H40.53X3	Glaucoma secondary to other eye disorders, bilateral, severe stage	ICD-10-CM
H40.53X4	Glaucoma secondary to other eye disorders, bilateral, indeterminate stage	ICD-10-CM
H40.60X0	Glaucoma secondary to drugs, unspecified eye, stage unspecified	ICD-10-CM
H40.60X1	Glaucoma secondary to drugs, unspecified eye, mild stage	ICD-10-CM
H40.60X2	Glaucoma secondary to drugs, unspecified eye, moderate stage	ICD-10-CM
H40.60X3	Glaucoma secondary to drugs, unspecified eye, severe stage	ICD-10-CM
H40.60X4	Glaucoma secondary to drugs, unspecified eye, indeterminate stage	ICD-10-CM
H40.61X0	Glaucoma secondary to drugs, right eye, stage unspecified	ICD-10-CM
H40.61X1	Glaucoma secondary to drugs, right eye, mild stage	ICD-10-CM
H40.61X2	Glaucoma secondary to drugs, right eye, moderate stage	ICD-10-CM
H40.61X3	Glaucoma secondary to drugs, right eye, severe stage	ICD-10-CM
H40.61X4	Glaucoma secondary to drugs, right eye, indeterminate stage	ICD-10-CM
H40.62X0	Glaucoma secondary to drugs, left eye, stage unspecified	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
H40.62X1	Glaucoma secondary to drugs, left eye, mild stage	ICD-10-CM
H40.62X2	Glaucoma secondary to drugs, left eye, moderate stage	ICD-10-CM
H40.62X3	Glaucoma secondary to drugs, left eye, severe stage	ICD-10-CM
H40.62X4	Glaucoma secondary to drugs, left eye, indeterminate stage	ICD-10-CM
H40.63X0	Glaucoma secondary to drugs, bilateral, stage unspecified	ICD-10-CM
H40.63X1	Glaucoma secondary to drugs, bilateral, mild stage	ICD-10-CM
H40.63X2	Glaucoma secondary to drugs, bilateral, moderate stage	ICD-10-CM
H40.63X3	Glaucoma secondary to drugs, bilateral, severe stage	ICD-10-CM
H40.63X4	Glaucoma secondary to drugs, bilateral, indeterminate stage	ICD-10-CM
H40.811	Glaucoma with increased episcleral venous pressure, right eye	ICD-10-CM
H40.812	Glaucoma with increased episcleral venous pressure, left eye	ICD-10-CM
H40.813	Glaucoma with increased episcleral venous pressure, bilateral	ICD-10-CM
H40.819	Glaucoma with increased episcleral venous pressure, unspecified eye	ICD-10-CM
H40.821	Hypersecretion glaucoma, right eye	ICD-10-CM
H40.822	Hypersecretion glaucoma, left eye	ICD-10-CM
H40.823	Hypersecretion glaucoma, bilateral	ICD-10-CM
H40.829	Hypersecretion glaucoma, unspecified eye	ICD-10-CM
H40.831	Aqueous misdirection, right eye	ICD-10-CM
H40.832	Aqueous misdirection, left eye	ICD-10-CM
H40.833	Aqueous misdirection, bilateral	ICD-10-CM
H40.839	Aqueous misdirection, unspecified eye	ICD-10-CM
H40.89	Other specified glaucoma	ICD-10-CM
H40.9	Unspecified glaucoma	ICD-10-CM
H42	Glaucoma in diseases classified elsewhere	ICD-10-CM
H44.511	Absolute glaucoma, right eye	ICD-10-CM
H44.512	Absolute glaucoma, left eye	ICD-10-CM
H44.513	Absolute glaucoma, bilateral	ICD-10-CM
H44.519	Absolute glaucoma, unspecified eye	ICD-10-CM
H47.231	Glaucomatous optic atrophy, right eye	ICD-10-CM
H47.232	Glaucomatous optic atrophy, left eye	ICD-10-CM
H47.233	Glaucomatous optic atrophy, bilateral	ICD-10-CM
H47.239	Glaucomatous optic atrophy, unspecified eye	ICD-10-CM
Q15.0	Congenital glaucoma	ICD-10-CM
<b>Heart Failure</b>		
398.91	Rheumatic heart failure (congestive)	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM
404.01	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease	ICD-9-CM
404.03	Hypertensive heart and chronic kidney disease, malignant, with heart failure and with chronic kidney disease	ICD-9-CM
404.11	Hypertensive heart and chronic kidney disease, benign, with heart failure and with chronic kidney disease st:	ICD-9-CM
404.13	Hypertensive heart and chronic kidney disease, benign, with heart failure and chronic kidney disease stage V	ICD-9-CM
404.91	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and with chronic kidney disea:	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
404.93	Hypertensive heart and chronic kidney disease, unspecified, with heart failure and chronic kidney disease sta	ICD-9-CM
428.0	Congestive heart failure, unspecified	ICD-9-CM
428.1	Left heart failure	ICD-9-CM
428.20	Unspecified systolic heart failure	ICD-9-CM
428.21	Acute systolic heart failure	ICD-9-CM
428.22	Chronic systolic heart failure	ICD-9-CM
428.23	Acute on chronic systolic heart failure	ICD-9-CM
428.30	Unspecified diastolic heart failure	ICD-9-CM
428.31	Acute diastolic heart failure	ICD-9-CM
428.32	Chronic diastolic heart failure	ICD-9-CM
428.33	Acute on chronic diastolic heart failure	ICD-9-CM
428.40	Unspecified combined systolic and diastolic heart failure	ICD-9-CM
428.41	Acute combined systolic and diastolic heart failure	ICD-9-CM
428.42	Chronic combined systolic and diastolic heart failure	ICD-9-CM
428.43	Acute on chronic combined systolic and diastolic heart failure	ICD-9-CM
428.9	Unspecified heart failure	ICD-9-CM
I09.81	Rheumatic heart failure	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	ICD-10-CM
I13.0	Hypertensive heart and chronic kidney disease with heart failure and stage 1 through stage 4 chronic kidney	ICD-10-CM
I13.2	Hypertensive heart and chronic kidney disease with heart failure and with stage 5 chronic kidney disease, or	ICD-10-CM
I50.1	Left ventricular failure, unspecified	ICD-10-CM
I50.20	Unspecified systolic (congestive) heart failure	ICD-10-CM
I50.21	Acute systolic (congestive) heart failure	ICD-10-CM
I50.22	Chronic systolic (congestive) heart failure	ICD-10-CM
I50.23	Acute on chronic systolic (congestive) heart failure	ICD-10-CM
I50.30	Unspecified diastolic (congestive) heart failure	ICD-10-CM
I50.31	Acute diastolic (congestive) heart failure	ICD-10-CM
I50.32	Chronic diastolic (congestive) heart failure	ICD-10-CM
I50.33	Acute on chronic diastolic (congestive) heart failure	ICD-10-CM
I50.40	Unspecified combined systolic (congestive) and diastolic (congestive) heart failure	ICD-10-CM
I50.41	Acute combined systolic (congestive) and diastolic (congestive) heart failure	ICD-10-CM
I50.42	Chronic combined systolic (congestive) and diastolic (congestive) heart failure	ICD-10-CM
I50.43	Acute on chronic combined systolic (congestive) and diastolic (congestive) heart failure	ICD-10-CM
I50.810	Right heart failure, unspecified	ICD-10-CM
I50.811	Acute right heart failure	ICD-10-CM
I50.812	Chronic right heart failure	ICD-10-CM
I50.813	Acute on chronic right heart failure	ICD-10-CM
I50.814	Right heart failure due to left heart failure	ICD-10-CM
I50.82	Biventricular heart failure	ICD-10-CM
I50.83	High output heart failure	ICD-10-CM
I50.84	End stage heart failure	ICD-10-CM
I50.89	Other heart failure	ICD-10-CM
I50.9	Heart failure, unspecified	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
<b>Hyperlipidemia</b>		
272.0	Pure hypercholesterolemia	ICD-9-CM
272.1	Pure hyperglyceridemia	ICD-9-CM
272.2	Mixed hyperlipidemia	ICD-9-CM
272.3	Hyperchylomicronemia	ICD-9-CM
272.4	Other and unspecified hyperlipidemia	ICD-9-CM
E78.0	Pure hypercholesterolemia	ICD-10-CM
E78.1	Pure hyperglyceridemia	ICD-10-CM
E78.2	Mixed hyperlipidemia	ICD-10-CM
E78.3	Hyperchylomicronemia	ICD-10-CM
E78.4	Other hyperlipidemia	ICD-10-CM
E78.5	Hyperlipidemia, unspecified	ICD-10-CM
<b>Hypertension</b>		
362.11	Hypertensive retinopathy	ICD-9-CM
401.0	Essential hypertension, malignant	ICD-9-CM
401.1	Essential hypertension, benign	ICD-9-CM
401.9	Unspecified essential hypertension	ICD-9-CM
402.00	Malignant hypertensive heart disease without heart failure	ICD-9-CM
402.01	Malignant hypertensive heart disease with heart failure	ICD-9-CM
402.10	Benign hypertensive heart disease without heart failure	ICD-9-CM
402.11	Benign hypertensive heart disease with heart failure	ICD-9-CM
402.90	Unspecified hypertensive heart disease without heart failure	ICD-9-CM
402.91	Hypertensive heart disease, unspecified, with heart failure	ICD-9-CM
403.00	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
403.01	Hypertensive chronic kidney disease, malignant, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
403.10	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
403.11	Hypertensive chronic kidney disease, benign, with chronic kidney disease stage V or end stage renal disease	ICD-9-CM
403.90	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage I through stage IV, or unspecified	ICD-9-CM
403.91	Hypertensive chronic kidney disease, unspecified, with chronic kidney disease stage V or end stage renal disease	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	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	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	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	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
404.10	Hypertensive heart and chronic kidney disease, benign, without heart failure and with chronic kidney disease stage I through stage IV, or unspecified	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	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	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	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	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	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	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	ICD-9-CM
405.01	Secondary renovascular hypertension, malignant	ICD-9-CM
405.09	Other secondary hypertension, malignant	ICD-9-CM
405.11	Secondary renovascular hypertension, benign	ICD-9-CM
405.19	Other secondary hypertension, benign	ICD-9-CM
405.91	Secondary renovascular hypertension, unspecified	ICD-9-CM
405.99	Other secondary hypertension, unspecified	ICD-9-CM
437.2	Hypertensive encephalopathy	ICD-9-CM
H35.031	Hypertensive retinopathy, right eye	ICD-10-CM
H35.032	Hypertensive retinopathy, left eye	ICD-10-CM
H35.033	Hypertensive retinopathy, bilateral	ICD-10-CM
H35.039	Hypertensive retinopathy, unspecified eye	ICD-10-CM
I10	Essential (primary) hypertension	ICD-10-CM
I11.0	Hypertensive heart disease with heart failure	ICD-10-CM
I11.9	Hypertensive heart disease without heart failure	ICD-10-CM
I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal disease	ICD-10-CM
I12.9	Hypertensive chronic kidney disease with stage 1 through stage 4 chronic kidney disease, or unspecified chronic kidney disease	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	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	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	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	ICD-10-CM
I15.0	Renovascular hypertension	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I15.1	Hypertension secondary to other renal disorders	ICD-10-CM
I15.2	Hypertension secondary to endocrine disorders	ICD-10-CM
I15.8	Other secondary hypertension	ICD-10-CM
I15.9	Secondary hypertension, unspecified	ICD-10-CM
I67.4	Hypertensive encephalopathy	ICD-10-CM
N26.2	Page kidney	ICD-10-CM
<b>Ischemic Heart Disease</b>		
410.00	Acute myocardial infarction of anterolateral wall, episode of care unspecified	ICD-9-CM
410.01	Acute myocardial infarction of anterolateral wall, initial episode of care	ICD-9-CM
410.02	Acute myocardial infarction of anterolateral wall, subsequent episode of care	ICD-9-CM
410.10	Acute myocardial infarction of other anterior wall, episode of care unspecified	ICD-9-CM
410.11	Acute myocardial infarction of other anterior wall, initial episode of care	ICD-9-CM
410.12	Acute myocardial infarction of other anterior wall, subsequent episode of care	ICD-9-CM
410.20	Acute myocardial infarction of inferolateral wall, episode of care unspecified	ICD-9-CM
410.21	Acute myocardial infarction of inferolateral wall, initial episode of care	ICD-9-CM
410.22	Acute myocardial infarction of inferolateral wall, subsequent episode of care	ICD-9-CM
410.30	Acute myocardial infarction of inferoposterior wall, episode of care unspecified	ICD-9-CM
410.31	Acute myocardial infarction of inferoposterior wall, initial episode of care	ICD-9-CM
410.32	Acute myocardial infarction of inferoposterior wall, subsequent episode of care	ICD-9-CM
410.40	Acute myocardial infarction of other inferior wall, episode of care unspecified	ICD-9-CM
410.41	Acute myocardial infarction of other inferior wall, initial episode of care	ICD-9-CM
410.42	Acute myocardial infarction of other inferior wall, subsequent episode of care	ICD-9-CM
410.50	Acute myocardial infarction of other lateral wall, episode of care unspecified	ICD-9-CM
410.51	Acute myocardial infarction of other lateral wall, initial episode of care	ICD-9-CM
410.52	Acute myocardial infarction of other lateral wall, subsequent episode of care	ICD-9-CM
410.60	Acute myocardial infarction, true posterior wall infarction, episode of care unspecified	ICD-9-CM
410.61	Acute myocardial infarction, true posterior wall infarction, initial episode of care	ICD-9-CM
410.62	Acute myocardial infarction, true posterior wall infarction, subsequent episode of care	ICD-9-CM
410.70	Acute myocardial infarction, subendocardial infarction, episode of care unspecified	ICD-9-CM
410.71	Acute myocardial infarction, subendocardial infarction, initial episode of care	ICD-9-CM
410.72	Acute myocardial infarction, subendocardial infarction, subsequent episode of care	ICD-9-CM
410.80	Acute myocardial infarction of other specified sites, episode of care unspecified	ICD-9-CM
410.81	Acute myocardial infarction of other specified sites, initial episode of care	ICD-9-CM
410.82	Acute myocardial infarction of other specified sites, subsequent episode of care	ICD-9-CM
410.90	Acute myocardial infarction, unspecified site, episode of care unspecified	ICD-9-CM
410.91	Acute myocardial infarction, unspecified site, initial episode of care	ICD-9-CM
410.92	Acute myocardial infarction, unspecified site, subsequent episode of care	ICD-9-CM
411.0	Postmyocardial infarction syndrome	ICD-9-CM
411.1	Intermediate coronary syndrome	ICD-9-CM
411.81	Acute coronary occlusion without myocardial infarction	ICD-9-CM
411.89	Other acute and subacute form of ischemic heart disease	ICD-9-CM
412	Old myocardial infarction	ICD-9-CM
413.0	Angina decubitus	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
413.1	Prinzmetal angina	ICD-9-CM
413.9	Other and unspecified angina pectoris	ICD-9-CM
414.00	Coronary atherosclerosis of unspecified type of vessel, native or graft	ICD-9-CM
414.01	Coronary atherosclerosis of native coronary artery	ICD-9-CM
414.02	Coronary atherosclerosis of autologous vein bypass graft	ICD-9-CM
414.03	Coronary atherosclerosis of nonautologous biological bypass graft	ICD-9-CM
414.04	Coronary atherosclerosis of artery bypass graft	ICD-9-CM
414.05	Coronary atherosclerosis of unspecified type of bypass graft	ICD-9-CM
414.06	Coronary atherosclerosis, of native coronary artery of transplanted heart	ICD-9-CM
414.07	Coronary atherosclerosis, of bypass graft (artery) (vein) of transplanted heart	ICD-9-CM
414.12	Dissection of coronary artery	ICD-9-CM
414.2	Chronic total occlusion of coronary artery	ICD-9-CM
414.3	Coronary atherosclerosis due to lipid rich plaque	ICD-9-CM
414.4	Coronary atherosclerosis due to calcified coronary lesion	ICD-9-CM
414.8	Other specified forms of chronic ischemic heart disease	ICD-9-CM
414.9	Unspecified chronic ischemic heart disease	ICD-9-CM
I20.0	Unstable angina	ICD-10-CM
I20.1	Angina pectoris with documented spasm	ICD-10-CM
I20.8	Other forms of angina pectoris	ICD-10-CM
I20.9	Angina pectoris, unspecified	ICD-10-CM
I21.01	ST elevation (STEMI) myocardial infarction involving left main coronary artery	ICD-10-CM
I21.02	ST elevation (STEMI) myocardial infarction involving left anterior descending coronary artery	ICD-10-CM
I21.09	ST elevation (STEMI) myocardial infarction involving other coronary artery of anterior wall	ICD-10-CM
I21.11	ST elevation (STEMI) myocardial infarction involving right coronary artery	ICD-10-CM
I21.19	ST elevation (STEMI) myocardial infarction involving other coronary artery of inferior wall	ICD-10-CM
I21.21	ST elevation (STEMI) myocardial infarction involving left circumflex coronary artery	ICD-10-CM
I21.29	ST elevation (STEMI) myocardial infarction involving other sites	ICD-10-CM
I21.3	ST elevation (STEMI) myocardial infarction of unspecified site	ICD-10-CM
I21.4	Non-ST elevation (NSTEMI) myocardial infarction	ICD-10-CM
I21.A1	Myocardial infarction type 2	ICD-10-CM
I21.A9	Other myocardial infarction type	ICD-10-CM
I22.0	Subsequent ST elevation (STEMI) myocardial infarction of anterior wall	ICD-10-CM
I22.1	Subsequent ST elevation (STEMI) myocardial infarction of inferior wall	ICD-10-CM
I22.2	Subsequent non-ST elevation (NSTEMI) myocardial infarction	ICD-10-CM
I22.8	Subsequent ST elevation (STEMI) myocardial infarction of other sites	ICD-10-CM
I22.9	Subsequent ST elevation (STEMI) myocardial infarction of unspecified site	ICD-10-CM
I23.0	Hemopericardium as current complication following acute myocardial infarction	ICD-10-CM
I23.1	Atrial septal defect as current complication following acute myocardial infarction	ICD-10-CM
I23.2	Ventricular septal defect as current complication following acute myocardial infarction	ICD-10-CM
I23.3	Rupture of cardiac wall without hemopericardium as current complication following acute myocardial infarction	ICD-10-CM
I23.4	Rupture of chordae tendineae as current complication following acute myocardial infarction	ICD-10-CM
I23.5	Rupture of papillary muscle as current complication following acute myocardial infarction	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I23.6	Thrombosis of atrium, auricular appendage, and ventricle as current complications following acute myocardial infarction	ICD-10-CM
I23.7	Postinfarction angina	ICD-10-CM
I23.8	Other current complications following acute myocardial infarction	ICD-10-CM
I24.0	Acute coronary thrombosis not resulting in myocardial infarction	ICD-10-CM
I24.1	Dressler's syndrome	ICD-10-CM
I24.8	Other forms of acute ischemic heart disease	ICD-10-CM
I24.9	Acute ischemic heart disease, unspecified	ICD-10-CM
I25.10	Atherosclerotic heart disease of native coronary artery without angina pectoris	ICD-10-CM
I25.110	Atherosclerotic heart disease of native coronary artery with unstable angina pectoris	ICD-10-CM
I25.111	Atherosclerotic heart disease of native coronary artery with angina pectoris with documented spasm	ICD-10-CM
I25.118	Atherosclerotic heart disease of native coronary artery with other forms of angina pectoris	ICD-10-CM
I25.119	Atherosclerotic heart disease of native coronary artery with unspecified angina pectoris	ICD-10-CM
I25.2	Old myocardial infarction	ICD-10-CM
I25.3	Aneurysm of heart	ICD-10-CM
I25.41	Coronary artery aneurysm	ICD-10-CM
I25.42	Coronary artery dissection	ICD-10-CM
I25.5	Ischemic cardiomyopathy	ICD-10-CM
I25.6	Silent myocardial ischemia	ICD-10-CM
I25.700	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unstable angina pectoris	ICD-10-CM
I25.701	Atherosclerosis of coronary artery bypass graft(s), unspecified, with angina pectoris with documented spasm	ICD-10-CM
I25.708	Atherosclerosis of coronary artery bypass graft(s), unspecified, with other forms of angina pectoris	ICD-10-CM
I25.709	Atherosclerosis of coronary artery bypass graft(s), unspecified, with unspecified angina pectoris	ICD-10-CM
I25.710	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unstable angina pectoris	ICD-10-CM
I25.711	Atherosclerosis of autologous vein coronary artery bypass graft(s) with angina pectoris with documented spasm	ICD-10-CM
I25.718	Atherosclerosis of autologous vein coronary artery bypass graft(s) with other forms of angina pectoris	ICD-10-CM
I25.719	Atherosclerosis of autologous vein coronary artery bypass graft(s) with unspecified angina pectoris	ICD-10-CM
I25.720	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unstable angina pectoris	ICD-10-CM
I25.721	Atherosclerosis of autologous artery coronary artery bypass graft(s) with angina pectoris with documented spasm	ICD-10-CM
I25.728	Atherosclerosis of autologous artery coronary artery bypass graft(s) with other forms of angina pectoris	ICD-10-CM
I25.729	Atherosclerosis of autologous artery coronary artery bypass graft(s) with unspecified angina pectoris	ICD-10-CM
I25.730	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unstable angina pectoris	ICD-10-CM



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<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I25.731	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with angina pectoris with documented spasm	ICD-10-CM
I25.738	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with other forms of angina pectoris	ICD-10-CM
I25.739	Atherosclerosis of nonautologous biological coronary artery bypass graft(s) with unspecified angina pectoris	ICD-10-CM
I25.750	Atherosclerosis of native coronary artery of transplanted heart with unstable angina	ICD-10-CM
I25.751	Atherosclerosis of native coronary artery of transplanted heart with angina pectoris with documented spasm	ICD-10-CM
I25.758	Atherosclerosis of native coronary artery of transplanted heart with other forms of angina pectoris	ICD-10-CM
I25.759	Atherosclerosis of native coronary artery of transplanted heart with unspecified angina pectoris	ICD-10-CM
I25.760	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unstable angina	ICD-10-CM
I25.761	Atherosclerosis of bypass graft of coronary artery of transplanted heart with angina pectoris with documented spasm	ICD-10-CM
I25.768	Atherosclerosis of bypass graft of coronary artery of transplanted heart with other forms of angina pectoris	ICD-10-CM
I25.769	Atherosclerosis of bypass graft of coronary artery of transplanted heart with unspecified angina pectoris	ICD-10-CM
I25.790	Atherosclerosis of other coronary artery bypass graft(s) with unstable angina pectoris	ICD-10-CM
I25.791	Atherosclerosis of other coronary artery bypass graft(s) with angina pectoris with documented spasm	ICD-10-CM
I25.798	Atherosclerosis of other coronary artery bypass graft(s) with other forms of angina pectoris	ICD-10-CM
I25.799	Atherosclerosis of other coronary artery bypass graft(s) with unspecified angina pectoris	ICD-10-CM
I25.810	Atherosclerosis of coronary artery bypass graft(s) without angina pectoris	ICD-10-CM
I25.811	Atherosclerosis of native coronary artery of transplanted heart without angina pectoris	ICD-10-CM
I25.812	Atherosclerosis of bypass graft of coronary artery of transplanted heart without angina pectoris	ICD-10-CM
I25.82	Chronic total occlusion of coronary artery	ICD-10-CM
I25.83	Coronary atherosclerosis due to lipid rich plaque	ICD-10-CM
I25.84	Coronary atherosclerosis due to calcified coronary lesion	ICD-10-CM
I25.89	Other forms of chronic ischemic heart disease	ICD-10-CM
I25.9	Chronic ischemic heart disease, unspecified	ICD-10-CM
<b>Osteoporosis</b>		
733.00	Unspecified osteoporosis	ICD-9-CM
733.01	Senile osteoporosis	ICD-9-CM
733.02	Idiopathic osteoporosis	ICD-9-CM
733.03	Disuse osteoporosis	ICD-9-CM
733.09	Other osteoporosis	ICD-9-CM
M81.0	Age-related osteoporosis without current pathological fracture	ICD-10-CM
M81.6	Localized osteoporosis [Lequesne]	ICD-10-CM
M81.8	Other osteoporosis without current pathological fracture	ICD-10-CM
<b>Rheumatoid Arthritis/Osteoarthritis</b>		
714.0	Rheumatoid arthritis	ICD-9-CM

**Appendix B. 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 Events in this Request**

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

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
715.95	Osteoarthritis, unspecified whether generalized or localized, pelvic region and thigh	ICD-9-CM
715.96	Osteoarthritis, unspecified whether generalized or localized, lower leg	ICD-9-CM
715.97	Osteoarthritis, unspecified whether generalized or localized, ankle and foot	ICD-9-CM
715.98	Osteoarthritis, unspecified whether generalized or localized, other specified sites	ICD-9-CM
720.0	Ankylosing spondylitis	ICD-9-CM
721.0	Cervical spondylosis without myelopathy	ICD-9-CM
721.1	Cervical spondylosis with myelopathy	ICD-9-CM
721.2	Thoracic spondylosis without myelopathy	ICD-9-CM
721.3	Lumbosacral spondylosis without myelopathy	ICD-9-CM
721.90	Spondylosis of unspecified site without mention of myelopathy	ICD-9-CM
721.91	Spondylosis of unspecified site with myelopathy	ICD-9-CM
M05.00	Felty's syndrome, unspecified site	ICD-10-CM
M05.011	Felty's syndrome, right shoulder	ICD-10-CM
M05.012	Felty's syndrome, left shoulder	ICD-10-CM
M05.019	Felty's syndrome, unspecified shoulder	ICD-10-CM
M05.021	Felty's syndrome, right elbow	ICD-10-CM
M05.022	Felty's syndrome, left elbow	ICD-10-CM
M05.029	Felty's syndrome, unspecified elbow	ICD-10-CM
M05.031	Felty's syndrome, right wrist	ICD-10-CM
M05.032	Felty's syndrome, left wrist	ICD-10-CM
M05.039	Felty's syndrome, unspecified wrist	ICD-10-CM
M05.041	Felty's syndrome, right hand	ICD-10-CM
M05.042	Felty's syndrome, left hand	ICD-10-CM
M05.049	Felty's syndrome, unspecified hand	ICD-10-CM
M05.051	Felty's syndrome, right hip	ICD-10-CM
M05.052	Felty's syndrome, left hip	ICD-10-CM
M05.059	Felty's syndrome, unspecified hip	ICD-10-CM
M05.061	Felty's syndrome, right knee	ICD-10-CM
M05.062	Felty's syndrome, left knee	ICD-10-CM
M05.069	Felty's syndrome, unspecified knee	ICD-10-CM
M05.071	Felty's syndrome, right ankle and foot	ICD-10-CM
M05.072	Felty's syndrome, left ankle and foot	ICD-10-CM
M05.079	Felty's syndrome, unspecified ankle and foot	ICD-10-CM
M05.09	Felty's syndrome, multiple sites	ICD-10-CM
M05.20	Rheumatoid vasculitis with rheumatoid arthritis of unspecified site	ICD-10-CM
M05.211	Rheumatoid vasculitis with rheumatoid arthritis of right shoulder	ICD-10-CM
M05.212	Rheumatoid vasculitis with rheumatoid arthritis of left shoulder	ICD-10-CM
M05.219	Rheumatoid vasculitis with rheumatoid arthritis of unspecified shoulder	ICD-10-CM
M05.221	Rheumatoid vasculitis with rheumatoid arthritis of right elbow	ICD-10-CM
M05.222	Rheumatoid vasculitis with rheumatoid arthritis of left elbow	ICD-10-CM
M05.229	Rheumatoid vasculitis with rheumatoid arthritis of unspecified elbow	ICD-10-CM
M05.231	Rheumatoid vasculitis with rheumatoid arthritis of right wrist	ICD-10-CM
M05.232	Rheumatoid vasculitis with rheumatoid arthritis of left wrist	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M05.239	Rheumatoid vasculitis with rheumatoid arthritis of unspecified wrist	ICD-10-CM
M05.241	Rheumatoid vasculitis with rheumatoid arthritis of right hand	ICD-10-CM
M05.242	Rheumatoid vasculitis with rheumatoid arthritis of left hand	ICD-10-CM
M05.249	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hand	ICD-10-CM
M05.251	Rheumatoid vasculitis with rheumatoid arthritis of right hip	ICD-10-CM
M05.252	Rheumatoid vasculitis with rheumatoid arthritis of left hip	ICD-10-CM
M05.259	Rheumatoid vasculitis with rheumatoid arthritis of unspecified hip	ICD-10-CM
M05.261	Rheumatoid vasculitis with rheumatoid arthritis of right knee	ICD-10-CM
M05.262	Rheumatoid vasculitis with rheumatoid arthritis of left knee	ICD-10-CM
M05.269	Rheumatoid vasculitis with rheumatoid arthritis of unspecified knee	ICD-10-CM
M05.271	Rheumatoid vasculitis with rheumatoid arthritis of right ankle and foot	ICD-10-CM
M05.272	Rheumatoid vasculitis with rheumatoid arthritis of left ankle and foot	ICD-10-CM
M05.279	Rheumatoid vasculitis with rheumatoid arthritis of unspecified ankle and foot	ICD-10-CM
M05.29	Rheumatoid vasculitis with rheumatoid arthritis of multiple sites	ICD-10-CM
M05.30	Rheumatoid heart disease with rheumatoid arthritis of unspecified site	ICD-10-CM
M05.311	Rheumatoid heart disease with rheumatoid arthritis of right shoulder	ICD-10-CM
M05.312	Rheumatoid heart disease with rheumatoid arthritis of left shoulder	ICD-10-CM
M05.319	Rheumatoid heart disease with rheumatoid arthritis of unspecified shoulder	ICD-10-CM
M05.321	Rheumatoid heart disease with rheumatoid arthritis of right elbow	ICD-10-CM
M05.322	Rheumatoid heart disease with rheumatoid arthritis of left elbow	ICD-10-CM
M05.329	Rheumatoid heart disease with rheumatoid arthritis of unspecified elbow	ICD-10-CM
M05.331	Rheumatoid heart disease with rheumatoid arthritis of right wrist	ICD-10-CM
M05.332	Rheumatoid heart disease with rheumatoid arthritis of left wrist	ICD-10-CM
M05.339	Rheumatoid heart disease with rheumatoid arthritis of unspecified wrist	ICD-10-CM
M05.341	Rheumatoid heart disease with rheumatoid arthritis of right hand	ICD-10-CM
M05.342	Rheumatoid heart disease with rheumatoid arthritis of left hand	ICD-10-CM
M05.349	Rheumatoid heart disease with rheumatoid arthritis of unspecified hand	ICD-10-CM
M05.351	Rheumatoid heart disease with rheumatoid arthritis of right hip	ICD-10-CM
M05.352	Rheumatoid heart disease with rheumatoid arthritis of left hip	ICD-10-CM
M05.359	Rheumatoid heart disease with rheumatoid arthritis of unspecified hip	ICD-10-CM
M05.361	Rheumatoid heart disease with rheumatoid arthritis of right knee	ICD-10-CM
M05.362	Rheumatoid heart disease with rheumatoid arthritis of left knee	ICD-10-CM
M05.369	Rheumatoid heart disease with rheumatoid arthritis of unspecified knee	ICD-10-CM
M05.371	Rheumatoid heart disease with rheumatoid arthritis of right ankle and foot	ICD-10-CM
M05.372	Rheumatoid heart disease with rheumatoid arthritis of left ankle and foot	ICD-10-CM
M05.379	Rheumatoid heart disease with rheumatoid arthritis of unspecified ankle and foot	ICD-10-CM
M05.39	Rheumatoid heart disease with rheumatoid arthritis of multiple sites	ICD-10-CM
M05.40	Rheumatoid myopathy with rheumatoid arthritis of unspecified site	ICD-10-CM
M05.411	Rheumatoid myopathy with rheumatoid arthritis of right shoulder	ICD-10-CM
M05.412	Rheumatoid myopathy with rheumatoid arthritis of left shoulder	ICD-10-CM
M05.419	Rheumatoid myopathy with rheumatoid arthritis of unspecified shoulder	ICD-10-CM
M05.421	Rheumatoid myopathy with rheumatoid arthritis of right elbow	ICD-10-CM
M05.422	Rheumatoid myopathy with rheumatoid arthritis of left elbow	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M05.429	Rheumatoid myopathy with rheumatoid arthritis of unspecified elbow	ICD-10-CM
M05.431	Rheumatoid myopathy with rheumatoid arthritis of right wrist	ICD-10-CM
M05.432	Rheumatoid myopathy with rheumatoid arthritis of left wrist	ICD-10-CM
M05.439	Rheumatoid myopathy with rheumatoid arthritis of unspecified wrist	ICD-10-CM
M05.441	Rheumatoid myopathy with rheumatoid arthritis of right hand	ICD-10-CM
M05.442	Rheumatoid myopathy with rheumatoid arthritis of left hand	ICD-10-CM
M05.449	Rheumatoid myopathy with rheumatoid arthritis of unspecified hand	ICD-10-CM
M05.451	Rheumatoid myopathy with rheumatoid arthritis of right hip	ICD-10-CM
M05.452	Rheumatoid myopathy with rheumatoid arthritis of left hip	ICD-10-CM
M05.459	Rheumatoid myopathy with rheumatoid arthritis of unspecified hip	ICD-10-CM
M05.461	Rheumatoid myopathy with rheumatoid arthritis of right knee	ICD-10-CM
M05.462	Rheumatoid myopathy with rheumatoid arthritis of left knee	ICD-10-CM
M05.469	Rheumatoid myopathy with rheumatoid arthritis of unspecified knee	ICD-10-CM
M05.471	Rheumatoid myopathy with rheumatoid arthritis of right ankle and foot	ICD-10-CM
M05.472	Rheumatoid myopathy with rheumatoid arthritis of left ankle and foot	ICD-10-CM
M05.479	Rheumatoid myopathy with rheumatoid arthritis of unspecified ankle and foot	ICD-10-CM
M05.49	Rheumatoid myopathy with rheumatoid arthritis of multiple sites	ICD-10-CM
M05.50	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified site	ICD-10-CM
M05.511	Rheumatoid polyneuropathy with rheumatoid arthritis of right shoulder	ICD-10-CM
M05.512	Rheumatoid polyneuropathy with rheumatoid arthritis of left shoulder	ICD-10-CM
M05.519	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified shoulder	ICD-10-CM
M05.521	Rheumatoid polyneuropathy with rheumatoid arthritis of right elbow	ICD-10-CM
M05.522	Rheumatoid polyneuropathy with rheumatoid arthritis of left elbow	ICD-10-CM
M05.529	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified elbow	ICD-10-CM
M05.531	Rheumatoid polyneuropathy with rheumatoid arthritis of right wrist	ICD-10-CM
M05.532	Rheumatoid polyneuropathy with rheumatoid arthritis of left wrist	ICD-10-CM
M05.539	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified wrist	ICD-10-CM
M05.541	Rheumatoid polyneuropathy with rheumatoid arthritis of right hand	ICD-10-CM
M05.542	Rheumatoid polyneuropathy with rheumatoid arthritis of left hand	ICD-10-CM
M05.549	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hand	ICD-10-CM
M05.551	Rheumatoid polyneuropathy with rheumatoid arthritis of right hip	ICD-10-CM
M05.552	Rheumatoid polyneuropathy with rheumatoid arthritis of left hip	ICD-10-CM
M05.559	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified hip	ICD-10-CM
M05.561	Rheumatoid polyneuropathy with rheumatoid arthritis of right knee	ICD-10-CM
M05.562	Rheumatoid polyneuropathy with rheumatoid arthritis of left knee	ICD-10-CM
M05.569	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified knee	ICD-10-CM
M05.571	Rheumatoid polyneuropathy with rheumatoid arthritis of right ankle and foot	ICD-10-CM
M05.572	Rheumatoid polyneuropathy with rheumatoid arthritis of left ankle and foot	ICD-10-CM
M05.579	Rheumatoid polyneuropathy with rheumatoid arthritis of unspecified ankle and foot	ICD-10-CM
M05.59	Rheumatoid polyneuropathy with rheumatoid arthritis of multiple sites	ICD-10-CM
M05.60	Rheumatoid arthritis of unspecified site with involvement of other organs and systems	ICD-10-CM
M05.611	Rheumatoid arthritis of right shoulder with involvement of other organs and systems	ICD-10-CM
M05.612	Rheumatoid arthritis of left shoulder with involvement of other organs and systems	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M05.619	Rheumatoid arthritis of unspecified shoulder with involvement of other organs and systems	ICD-10-CM
M05.621	Rheumatoid arthritis of right elbow with involvement of other organs and systems	ICD-10-CM
M05.622	Rheumatoid arthritis of left elbow with involvement of other organs and systems	ICD-10-CM
M05.629	Rheumatoid arthritis of unspecified elbow with involvement of other organs and systems	ICD-10-CM
M05.631	Rheumatoid arthritis of right wrist with involvement of other organs and systems	ICD-10-CM
M05.632	Rheumatoid arthritis of left wrist with involvement of other organs and systems	ICD-10-CM
M05.639	Rheumatoid arthritis of unspecified wrist with involvement of other organs and systems	ICD-10-CM
M05.641	Rheumatoid arthritis of right hand with involvement of other organs and systems	ICD-10-CM
M05.642	Rheumatoid arthritis of left hand with involvement of other organs and systems	ICD-10-CM
M05.649	Rheumatoid arthritis of unspecified hand with involvement of other organs and systems	ICD-10-CM
M05.651	Rheumatoid arthritis of right hip with involvement of other organs and systems	ICD-10-CM
M05.652	Rheumatoid arthritis of left hip with involvement of other organs and systems	ICD-10-CM
M05.659	Rheumatoid arthritis of unspecified hip with involvement of other organs and systems	ICD-10-CM
M05.661	Rheumatoid arthritis of right knee with involvement of other organs and systems	ICD-10-CM
M05.662	Rheumatoid arthritis of left knee with involvement of other organs and systems	ICD-10-CM
M05.669	Rheumatoid arthritis of unspecified knee with involvement of other organs and systems	ICD-10-CM
M05.671	Rheumatoid arthritis of right ankle and foot with involvement of other organs and systems	ICD-10-CM
M05.672	Rheumatoid arthritis of left ankle and foot with involvement of other organs and systems	ICD-10-CM
M05.679	Rheumatoid arthritis of unspecified ankle and foot with involvement of other organs and systems	ICD-10-CM
M05.69	Rheumatoid arthritis of multiple sites with involvement of other organs and systems	ICD-10-CM
M05.70	Rheumatoid arthritis with rheumatoid factor of unspecified site without organ or systems involvement	ICD-10-CM
M05.711	Rheumatoid arthritis with rheumatoid factor of right shoulder without organ or systems involvement	ICD-10-CM
M05.712	Rheumatoid arthritis with rheumatoid factor of left shoulder without organ or systems involvement	ICD-10-CM
M05.719	Rheumatoid arthritis with rheumatoid factor of unspecified shoulder without organ or systems involvement	ICD-10-CM
M05.721	Rheumatoid arthritis with rheumatoid factor of right elbow without organ or systems involvement	ICD-10-CM
M05.722	Rheumatoid arthritis with rheumatoid factor of left elbow without organ or systems involvement	ICD-10-CM
M05.729	Rheumatoid arthritis with rheumatoid factor of unspecified elbow without organ or systems involvement	ICD-10-CM
M05.731	Rheumatoid arthritis with rheumatoid factor of right wrist without organ or systems involvement	ICD-10-CM
M05.732	Rheumatoid arthritis with rheumatoid factor of left wrist without organ or systems involvement	ICD-10-CM
M05.739	Rheumatoid arthritis with rheumatoid factor of unspecified wrist without organ or systems involvement	ICD-10-CM
M05.741	Rheumatoid arthritis with rheumatoid factor of right hand without organ or systems involvement	ICD-10-CM
M05.742	Rheumatoid arthritis with rheumatoid factor of left hand without organ or systems involvement	ICD-10-CM
M05.749	Rheumatoid arthritis with rheumatoid factor of unspecified hand without organ or systems involvement	ICD-10-CM
M05.751	Rheumatoid arthritis with rheumatoid factor of right hip without organ or systems involvement	ICD-10-CM
M05.752	Rheumatoid arthritis with rheumatoid factor of left hip without organ or systems involvement	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M05.759	Rheumatoid arthritis with rheumatoid factor of unspecified hip without organ or systems involvement	ICD-10-CM
M05.761	Rheumatoid arthritis with rheumatoid factor of right knee without organ or systems involvement	ICD-10-CM
M05.762	Rheumatoid arthritis with rheumatoid factor of left knee without organ or systems involvement	ICD-10-CM
M05.769	Rheumatoid arthritis with rheumatoid factor of unspecified knee without organ or systems involvement	ICD-10-CM
M05.771	Rheumatoid arthritis with rheumatoid factor of right ankle and foot without organ or systems involvement	ICD-10-CM
M05.772	Rheumatoid arthritis with rheumatoid factor of left ankle and foot without organ or systems involvement	ICD-10-CM
M05.779	Rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot without organ or systems involvement	ICD-10-CM
M05.79	Rheumatoid arthritis with rheumatoid factor of multiple sites without organ or systems involvement	ICD-10-CM
M05.80	Other rheumatoid arthritis with rheumatoid factor of unspecified site	ICD-10-CM
M05.811	Other rheumatoid arthritis with rheumatoid factor of right shoulder	ICD-10-CM
M05.812	Other rheumatoid arthritis with rheumatoid factor of left shoulder	ICD-10-CM
M05.819	Other rheumatoid arthritis with rheumatoid factor of unspecified shoulder	ICD-10-CM
M05.821	Other rheumatoid arthritis with rheumatoid factor of right elbow	ICD-10-CM
M05.822	Other rheumatoid arthritis with rheumatoid factor of left elbow	ICD-10-CM
M05.829	Other rheumatoid arthritis with rheumatoid factor of unspecified elbow	ICD-10-CM
M05.831	Other rheumatoid arthritis with rheumatoid factor of right wrist	ICD-10-CM
M05.832	Other rheumatoid arthritis with rheumatoid factor of left wrist	ICD-10-CM
M05.839	Other rheumatoid arthritis with rheumatoid factor of unspecified wrist	ICD-10-CM
M05.841	Other rheumatoid arthritis with rheumatoid factor of right hand	ICD-10-CM
M05.842	Other rheumatoid arthritis with rheumatoid factor of left hand	ICD-10-CM
M05.849	Other rheumatoid arthritis with rheumatoid factor of unspecified hand	ICD-10-CM
M05.851	Other rheumatoid arthritis with rheumatoid factor of right hip	ICD-10-CM
M05.852	Other rheumatoid arthritis with rheumatoid factor of left hip	ICD-10-CM
M05.859	Other rheumatoid arthritis with rheumatoid factor of unspecified hip	ICD-10-CM
M05.861	Other rheumatoid arthritis with rheumatoid factor of right knee	ICD-10-CM
M05.862	Other rheumatoid arthritis with rheumatoid factor of left knee	ICD-10-CM
M05.869	Other rheumatoid arthritis with rheumatoid factor of unspecified knee	ICD-10-CM
M05.871	Other rheumatoid arthritis with rheumatoid factor of right ankle and foot	ICD-10-CM
M05.872	Other rheumatoid arthritis with rheumatoid factor of left ankle and foot	ICD-10-CM
M05.879	Other rheumatoid arthritis with rheumatoid factor of unspecified ankle and foot	ICD-10-CM
M05.89	Other rheumatoid arthritis with rheumatoid factor of multiple sites	ICD-10-CM
M05.9	Rheumatoid arthritis with rheumatoid factor, unspecified	ICD-10-CM
M06.00	Rheumatoid arthritis without rheumatoid factor, unspecified site	ICD-10-CM
M06.011	Rheumatoid arthritis without rheumatoid factor, right shoulder	ICD-10-CM
M06.012	Rheumatoid arthritis without rheumatoid factor, left shoulder	ICD-10-CM
M06.019	Rheumatoid arthritis without rheumatoid factor, unspecified shoulder	ICD-10-CM
M06.021	Rheumatoid arthritis without rheumatoid factor, right elbow	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M06.022	Rheumatoid arthritis without rheumatoid factor, left elbow	ICD-10-CM
M06.029	Rheumatoid arthritis without rheumatoid factor, unspecified elbow	ICD-10-CM
M06.031	Rheumatoid arthritis without rheumatoid factor, right wrist	ICD-10-CM
M06.032	Rheumatoid arthritis without rheumatoid factor, left wrist	ICD-10-CM
M06.039	Rheumatoid arthritis without rheumatoid factor, unspecified wrist	ICD-10-CM
M06.041	Rheumatoid arthritis without rheumatoid factor, right hand	ICD-10-CM
M06.042	Rheumatoid arthritis without rheumatoid factor, left hand	ICD-10-CM
M06.049	Rheumatoid arthritis without rheumatoid factor, unspecified hand	ICD-10-CM
M06.051	Rheumatoid arthritis without rheumatoid factor, right hip	ICD-10-CM
M06.052	Rheumatoid arthritis without rheumatoid factor, left hip	ICD-10-CM
M06.059	Rheumatoid arthritis without rheumatoid factor, unspecified hip	ICD-10-CM
M06.061	Rheumatoid arthritis without rheumatoid factor, right knee	ICD-10-CM
M06.062	Rheumatoid arthritis without rheumatoid factor, left knee	ICD-10-CM
M06.069	Rheumatoid arthritis without rheumatoid factor, unspecified knee	ICD-10-CM
M06.071	Rheumatoid arthritis without rheumatoid factor, right ankle and foot	ICD-10-CM
M06.072	Rheumatoid arthritis without rheumatoid factor, left ankle and foot	ICD-10-CM
M06.079	Rheumatoid arthritis without rheumatoid factor, unspecified ankle and foot	ICD-10-CM
M06.08	Rheumatoid arthritis without rheumatoid factor, vertebrae	ICD-10-CM
M06.09	Rheumatoid arthritis without rheumatoid factor, multiple sites	ICD-10-CM
M06.1	Adult-onset Still's disease	ICD-10-CM
M06.20	Rheumatoid bursitis, unspecified site	ICD-10-CM
M06.211	Rheumatoid bursitis, right shoulder	ICD-10-CM
M06.212	Rheumatoid bursitis, left shoulder	ICD-10-CM
M06.219	Rheumatoid bursitis, unspecified shoulder	ICD-10-CM
M06.221	Rheumatoid bursitis, right elbow	ICD-10-CM
M06.222	Rheumatoid bursitis, left elbow	ICD-10-CM
M06.229	Rheumatoid bursitis, unspecified elbow	ICD-10-CM
M06.231	Rheumatoid bursitis, right wrist	ICD-10-CM
M06.232	Rheumatoid bursitis, left wrist	ICD-10-CM
M06.239	Rheumatoid bursitis, unspecified wrist	ICD-10-CM
M06.241	Rheumatoid bursitis, right hand	ICD-10-CM
M06.242	Rheumatoid bursitis, left hand	ICD-10-CM
M06.249	Rheumatoid bursitis, unspecified hand	ICD-10-CM
M06.251	Rheumatoid bursitis, right hip	ICD-10-CM
M06.252	Rheumatoid bursitis, left hip	ICD-10-CM
M06.259	Rheumatoid bursitis, unspecified hip	ICD-10-CM
M06.261	Rheumatoid bursitis, right knee	ICD-10-CM
M06.262	Rheumatoid bursitis, left knee	ICD-10-CM
M06.269	Rheumatoid bursitis, unspecified knee	ICD-10-CM
M06.271	Rheumatoid bursitis, right ankle and foot	ICD-10-CM
M06.272	Rheumatoid bursitis, left ankle and foot	ICD-10-CM
M06.279	Rheumatoid bursitis, unspecified ankle and foot	ICD-10-CM
M06.28	Rheumatoid bursitis, vertebrae	ICD-10-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M06.29	Rheumatoid bursitis, multiple sites	ICD-10-CM
M06.30	Rheumatoid nodule, unspecified site	ICD-10-CM
M06.311	Rheumatoid nodule, right shoulder	ICD-10-CM
M06.312	Rheumatoid nodule, left shoulder	ICD-10-CM
M06.319	Rheumatoid nodule, unspecified shoulder	ICD-10-CM
M06.321	Rheumatoid nodule, right elbow	ICD-10-CM
M06.322	Rheumatoid nodule, left elbow	ICD-10-CM
M06.329	Rheumatoid nodule, unspecified elbow	ICD-10-CM
M06.331	Rheumatoid nodule, right wrist	ICD-10-CM
M06.332	Rheumatoid nodule, left wrist	ICD-10-CM
M06.339	Rheumatoid nodule, unspecified wrist	ICD-10-CM
M06.341	Rheumatoid nodule, right hand	ICD-10-CM
M06.342	Rheumatoid nodule, left hand	ICD-10-CM
M06.349	Rheumatoid nodule, unspecified hand	ICD-10-CM
M06.351	Rheumatoid nodule, right hip	ICD-10-CM
M06.352	Rheumatoid nodule, left hip	ICD-10-CM
M06.359	Rheumatoid nodule, unspecified hip	ICD-10-CM
M06.361	Rheumatoid nodule, right knee	ICD-10-CM
M06.362	Rheumatoid nodule, left knee	ICD-10-CM
M06.369	Rheumatoid nodule, unspecified knee	ICD-10-CM
M06.371	Rheumatoid nodule, right ankle and foot	ICD-10-CM
M06.372	Rheumatoid nodule, left ankle and foot	ICD-10-CM
M06.379	Rheumatoid nodule, unspecified ankle and foot	ICD-10-CM
M06.38	Rheumatoid nodule, vertebrae	ICD-10-CM
M06.39	Rheumatoid nodule, multiple sites	ICD-10-CM
M06.80	Other specified rheumatoid arthritis, unspecified site	ICD-10-CM
M06.811	Other specified rheumatoid arthritis, right shoulder	ICD-10-CM
M06.812	Other specified rheumatoid arthritis, left shoulder	ICD-10-CM
M06.819	Other specified rheumatoid arthritis, unspecified shoulder	ICD-10-CM
M06.821	Other specified rheumatoid arthritis, right elbow	ICD-10-CM
M06.822	Other specified rheumatoid arthritis, left elbow	ICD-10-CM
M06.829	Other specified rheumatoid arthritis, unspecified elbow	ICD-10-CM
M06.831	Other specified rheumatoid arthritis, right wrist	ICD-10-CM
M06.832	Other specified rheumatoid arthritis, left wrist	ICD-10-CM
M06.839	Other specified rheumatoid arthritis, unspecified wrist	ICD-10-CM
M06.841	Other specified rheumatoid arthritis, right hand	ICD-10-CM
M06.842	Other specified rheumatoid arthritis, left hand	ICD-10-CM
M06.849	Other specified rheumatoid arthritis, unspecified hand	ICD-10-CM
M06.851	Other specified rheumatoid arthritis, right hip	ICD-10-CM
M06.852	Other specified rheumatoid arthritis, left hip	ICD-10-CM
M06.859	Other specified rheumatoid arthritis, unspecified hip	ICD-10-CM
M06.861	Other specified rheumatoid arthritis, right knee	ICD-10-CM
M06.862	Other specified rheumatoid arthritis, left knee	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M06.869	Other specified rheumatoid arthritis, unspecified knee	ICD-10-CM
M06.871	Other specified rheumatoid arthritis, right ankle and foot	ICD-10-CM
M06.872	Other specified rheumatoid arthritis, left ankle and foot	ICD-10-CM
M06.879	Other specified rheumatoid arthritis, unspecified ankle and foot	ICD-10-CM
M06.88	Other specified rheumatoid arthritis, vertebrae	ICD-10-CM
M06.89	Other specified rheumatoid arthritis, multiple sites	ICD-10-CM
M06.9	Rheumatoid arthritis, unspecified	ICD-10-CM
M08.00	Unspecified juvenile rheumatoid arthritis of unspecified site	ICD-10-CM
M08.011	Unspecified juvenile rheumatoid arthritis, right shoulder	ICD-10-CM
M08.012	Unspecified juvenile rheumatoid arthritis, left shoulder	ICD-10-CM
M08.019	Unspecified juvenile rheumatoid arthritis, unspecified shoulder	ICD-10-CM
M08.021	Unspecified juvenile rheumatoid arthritis, right elbow	ICD-10-CM
M08.022	Unspecified juvenile rheumatoid arthritis, left elbow	ICD-10-CM
M08.029	Unspecified juvenile rheumatoid arthritis, unspecified elbow	ICD-10-CM
M08.031	Unspecified juvenile rheumatoid arthritis, right wrist	ICD-10-CM
M08.032	Unspecified juvenile rheumatoid arthritis, left wrist	ICD-10-CM
M08.039	Unspecified juvenile rheumatoid arthritis, unspecified wrist	ICD-10-CM
M08.041	Unspecified juvenile rheumatoid arthritis, right hand	ICD-10-CM
M08.042	Unspecified juvenile rheumatoid arthritis, left hand	ICD-10-CM
M08.049	Unspecified juvenile rheumatoid arthritis, unspecified hand	ICD-10-CM
M08.051	Unspecified juvenile rheumatoid arthritis, right hip	ICD-10-CM
M08.052	Unspecified juvenile rheumatoid arthritis, left hip	ICD-10-CM
M08.059	Unspecified juvenile rheumatoid arthritis, unspecified hip	ICD-10-CM
M08.061	Unspecified juvenile rheumatoid arthritis, right knee	ICD-10-CM
M08.062	Unspecified juvenile rheumatoid arthritis, left knee	ICD-10-CM
M08.069	Unspecified juvenile rheumatoid arthritis, unspecified knee	ICD-10-CM
M08.071	Unspecified juvenile rheumatoid arthritis, right ankle and foot	ICD-10-CM
M08.072	Unspecified juvenile rheumatoid arthritis, left ankle and foot	ICD-10-CM
M08.079	Unspecified juvenile rheumatoid arthritis, unspecified ankle and foot	ICD-10-CM
M08.08	Unspecified juvenile rheumatoid arthritis, vertebrae	ICD-10-CM
M08.09	Unspecified juvenile rheumatoid arthritis, multiple sites	ICD-10-CM
M08.1	Juvenile ankylosing spondylitis	ICD-10-CM
M08.20	Juvenile rheumatoid arthritis with systemic onset, unspecified site	ICD-10-CM
M08.211	Juvenile rheumatoid arthritis with systemic onset, right shoulder	ICD-10-CM
M08.212	Juvenile rheumatoid arthritis with systemic onset, left shoulder	ICD-10-CM
M08.219	Juvenile rheumatoid arthritis with systemic onset, unspecified shoulder	ICD-10-CM
M08.221	Juvenile rheumatoid arthritis with systemic onset, right elbow	ICD-10-CM
M08.222	Juvenile rheumatoid arthritis with systemic onset, left elbow	ICD-10-CM
M08.229	Juvenile rheumatoid arthritis with systemic onset, unspecified elbow	ICD-10-CM
M08.231	Juvenile rheumatoid arthritis with systemic onset, right wrist	ICD-10-CM
M08.232	Juvenile rheumatoid arthritis with systemic onset, left wrist	ICD-10-CM
M08.239	Juvenile rheumatoid arthritis with systemic onset, unspecified wrist	ICD-10-CM
M08.241	Juvenile rheumatoid arthritis with systemic onset, right hand	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M08.242	Juvenile rheumatoid arthritis with systemic onset, left hand	ICD-10-CM
M08.249	Juvenile rheumatoid arthritis with systemic onset, unspecified hand	ICD-10-CM
M08.251	Juvenile rheumatoid arthritis with systemic onset, right hip	ICD-10-CM
M08.252	Juvenile rheumatoid arthritis with systemic onset, left hip	ICD-10-CM
M08.259	Juvenile rheumatoid arthritis with systemic onset, unspecified hip	ICD-10-CM
M08.261	Juvenile rheumatoid arthritis with systemic onset, right knee	ICD-10-CM
M08.262	Juvenile rheumatoid arthritis with systemic onset, left knee	ICD-10-CM
M08.269	Juvenile rheumatoid arthritis with systemic onset, unspecified knee	ICD-10-CM
M08.271	Juvenile rheumatoid arthritis with systemic onset, right ankle and foot	ICD-10-CM
M08.272	Juvenile rheumatoid arthritis with systemic onset, left ankle and foot	ICD-10-CM
M08.279	Juvenile rheumatoid arthritis with systemic onset, unspecified ankle and foot	ICD-10-CM
M08.28	Juvenile rheumatoid arthritis with systemic onset, vertebrae	ICD-10-CM
M08.29	Juvenile rheumatoid arthritis with systemic onset, multiple sites	ICD-10-CM
M08.3	Juvenile rheumatoid polyarthritis (seronegative)	ICD-10-CM
M08.40	Pauciarticular juvenile rheumatoid arthritis, unspecified site	ICD-10-CM
M08.411	Pauciarticular juvenile rheumatoid arthritis, right shoulder	ICD-10-CM
M08.412	Pauciarticular juvenile rheumatoid arthritis, left shoulder	ICD-10-CM
M08.419	Pauciarticular juvenile rheumatoid arthritis, unspecified shoulder	ICD-10-CM
M08.421	Pauciarticular juvenile rheumatoid arthritis, right elbow	ICD-10-CM
M08.422	Pauciarticular juvenile rheumatoid arthritis, left elbow	ICD-10-CM
M08.429	Pauciarticular juvenile rheumatoid arthritis, unspecified elbow	ICD-10-CM
M08.431	Pauciarticular juvenile rheumatoid arthritis, right wrist	ICD-10-CM
M08.432	Pauciarticular juvenile rheumatoid arthritis, left wrist	ICD-10-CM
M08.439	Pauciarticular juvenile rheumatoid arthritis, unspecified wrist	ICD-10-CM
M08.441	Pauciarticular juvenile rheumatoid arthritis, right hand	ICD-10-CM
M08.442	Pauciarticular juvenile rheumatoid arthritis, left hand	ICD-10-CM
M08.449	Pauciarticular juvenile rheumatoid arthritis, unspecified hand	ICD-10-CM
M08.451	Pauciarticular juvenile rheumatoid arthritis, right hip	ICD-10-CM
M08.452	Pauciarticular juvenile rheumatoid arthritis, left hip	ICD-10-CM
M08.459	Pauciarticular juvenile rheumatoid arthritis, unspecified hip	ICD-10-CM
M08.461	Pauciarticular juvenile rheumatoid arthritis, right knee	ICD-10-CM
M08.462	Pauciarticular juvenile rheumatoid arthritis, left knee	ICD-10-CM
M08.469	Pauciarticular juvenile rheumatoid arthritis, unspecified knee	ICD-10-CM
M08.471	Pauciarticular juvenile rheumatoid arthritis, right ankle and foot	ICD-10-CM
M08.472	Pauciarticular juvenile rheumatoid arthritis, left ankle and foot	ICD-10-CM
M08.479	Pauciarticular juvenile rheumatoid arthritis, unspecified ankle and foot	ICD-10-CM
M08.48	Pauciarticular juvenile rheumatoid arthritis, vertebrae	ICD-10-CM
M08.80	Other juvenile arthritis, unspecified site	ICD-10-CM
M08.811	Other juvenile arthritis, right shoulder	ICD-10-CM
M08.812	Other juvenile arthritis, left shoulder	ICD-10-CM
M08.819	Other juvenile arthritis, unspecified shoulder	ICD-10-CM
M08.821	Other juvenile arthritis, right elbow	ICD-10-CM
M08.822	Other juvenile arthritis, left elbow	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M08.829	Other juvenile arthritis, unspecified elbow	ICD-10-CM
M08.831	Other juvenile arthritis, right wrist	ICD-10-CM
M08.832	Other juvenile arthritis, left wrist	ICD-10-CM
M08.839	Other juvenile arthritis, unspecified wrist	ICD-10-CM
M08.841	Other juvenile arthritis, right hand	ICD-10-CM
M08.842	Other juvenile arthritis, left hand	ICD-10-CM
M08.849	Other juvenile arthritis, unspecified hand	ICD-10-CM
M08.851	Other juvenile arthritis, right hip	ICD-10-CM
M08.852	Other juvenile arthritis, left hip	ICD-10-CM
M08.859	Other juvenile arthritis, unspecified hip	ICD-10-CM
M08.861	Other juvenile arthritis, right knee	ICD-10-CM
M08.862	Other juvenile arthritis, left knee	ICD-10-CM
M08.869	Other juvenile arthritis, unspecified knee	ICD-10-CM
M08.871	Other juvenile arthritis, right ankle and foot	ICD-10-CM
M08.872	Other juvenile arthritis, left ankle and foot	ICD-10-CM
M08.879	Other juvenile arthritis, unspecified ankle and foot	ICD-10-CM
M08.88	Other juvenile arthritis, other specified site	ICD-10-CM
M08.89	Other juvenile arthritis, multiple sites	ICD-10-CM
M08.90	Juvenile arthritis, unspecified, unspecified site	ICD-10-CM
M08.911	Juvenile arthritis, unspecified, right shoulder	ICD-10-CM
M08.912	Juvenile arthritis, unspecified, left shoulder	ICD-10-CM
M08.919	Juvenile arthritis, unspecified, unspecified shoulder	ICD-10-CM
M08.921	Juvenile arthritis, unspecified, right elbow	ICD-10-CM
M08.922	Juvenile arthritis, unspecified, left elbow	ICD-10-CM
M08.929	Juvenile arthritis, unspecified, unspecified elbow	ICD-10-CM
M08.931	Juvenile arthritis, unspecified, right wrist	ICD-10-CM
M08.932	Juvenile arthritis, unspecified, left wrist	ICD-10-CM
M08.939	Juvenile arthritis, unspecified, unspecified wrist	ICD-10-CM
M08.941	Juvenile arthritis, unspecified, right hand	ICD-10-CM
M08.942	Juvenile arthritis, unspecified, left hand	ICD-10-CM
M08.949	Juvenile arthritis, unspecified, unspecified hand	ICD-10-CM
M08.951	Juvenile arthritis, unspecified, right hip	ICD-10-CM
M08.952	Juvenile arthritis, unspecified, left hip	ICD-10-CM
M08.959	Juvenile arthritis, unspecified, unspecified hip	ICD-10-CM
M08.961	Juvenile arthritis, unspecified, right knee	ICD-10-CM
M08.962	Juvenile arthritis, unspecified, left knee	ICD-10-CM
M08.969	Juvenile arthritis, unspecified, unspecified knee	ICD-10-CM
M08.971	Juvenile arthritis, unspecified, right ankle and foot	ICD-10-CM
M08.972	Juvenile arthritis, unspecified, left ankle and foot	ICD-10-CM
M08.979	Juvenile arthritis, unspecified, unspecified ankle and foot	ICD-10-CM
M08.98	Juvenile arthritis, unspecified, vertebrae	ICD-10-CM
M08.99	Juvenile arthritis, unspecified, multiple sites	ICD-10-CM
M15.0	Primary generalized (osteo)arthritis	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M15.1	Heberden's nodes (with arthropathy)	ICD-10-CM
M15.2	Bouchard's nodes (with arthropathy)	ICD-10-CM
M15.3	Secondary multiple arthritis	ICD-10-CM
M15.4	Erosive (osteo)arthritis	ICD-10-CM
M15.8	Other polyosteoarthritis	ICD-10-CM
M15.9	Polyosteoarthritis, unspecified	ICD-10-CM
M16.0	Bilateral primary osteoarthritis of hip	ICD-10-CM
M16.10	Unilateral primary osteoarthritis, unspecified hip	ICD-10-CM
M16.11	Unilateral primary osteoarthritis, right hip	ICD-10-CM
M16.12	Unilateral primary osteoarthritis, left hip	ICD-10-CM
M16.2	Bilateral osteoarthritis resulting from hip dysplasia	ICD-10-CM
M16.30	Unilateral osteoarthritis resulting from hip dysplasia, unspecified hip	ICD-10-CM
M16.31	Unilateral osteoarthritis resulting from hip dysplasia, right hip	ICD-10-CM
M16.32	Unilateral osteoarthritis resulting from hip dysplasia, left hip	ICD-10-CM
M16.4	Bilateral post-traumatic osteoarthritis of hip	ICD-10-CM
M16.50	Unilateral post-traumatic osteoarthritis, unspecified hip	ICD-10-CM
M16.51	Unilateral post-traumatic osteoarthritis, right hip	ICD-10-CM
M16.52	Unilateral post-traumatic osteoarthritis, left hip	ICD-10-CM
M16.6	Other bilateral secondary osteoarthritis of hip	ICD-10-CM
M16.7	Other unilateral secondary osteoarthritis of hip	ICD-10-CM
M16.9	Osteoarthritis of hip, unspecified	ICD-10-CM
M17.0	Bilateral primary osteoarthritis of knee	ICD-10-CM
M17.10	Unilateral primary osteoarthritis, unspecified knee	ICD-10-CM
M17.11	Unilateral primary osteoarthritis, right knee	ICD-10-CM
M17.12	Unilateral primary osteoarthritis, left knee	ICD-10-CM
M17.2	Bilateral post-traumatic osteoarthritis of knee	ICD-10-CM
M17.30	Unilateral post-traumatic osteoarthritis, unspecified knee	ICD-10-CM
M17.31	Unilateral post-traumatic osteoarthritis, right knee	ICD-10-CM
M17.32	Unilateral post-traumatic osteoarthritis, left knee	ICD-10-CM
M17.4	Other bilateral secondary osteoarthritis of knee	ICD-10-CM
M17.5	Other unilateral secondary osteoarthritis of knee	ICD-10-CM
M17.9	Osteoarthritis of knee, unspecified	ICD-10-CM
M18.0	Bilateral primary osteoarthritis of first carpometacarpal joints	ICD-10-CM
M18.10	Unilateral primary osteoarthritis of first carpometacarpal joint, unspecified hand	ICD-10-CM
M18.11	Unilateral primary osteoarthritis of first carpometacarpal joint, right hand	ICD-10-CM
M18.12	Unilateral primary osteoarthritis of first carpometacarpal joint, left hand	ICD-10-CM
M18.2	Bilateral post-traumatic osteoarthritis of first carpometacarpal joints	ICD-10-CM
M18.30	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, unspecified hand	ICD-10-CM
M18.31	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, right hand	ICD-10-CM
M18.32	Unilateral post-traumatic osteoarthritis of first carpometacarpal joint, left hand	ICD-10-CM
M18.4	Other bilateral secondary osteoarthritis of first carpometacarpal joints	ICD-10-CM
M18.50	Other unilateral secondary osteoarthritis of first carpometacarpal joint, unspecified hand	ICD-10-CM
M18.51	Other unilateral secondary osteoarthritis of first carpometacarpal joint, right hand	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M18.52	Other unilateral secondary osteoarthritis of first carpometacarpal joint, left hand	ICD-10-CM
M18.9	Osteoarthritis of first carpometacarpal joint, unspecified	ICD-10-CM
M19.011	Primary osteoarthritis, right shoulder	ICD-10-CM
M19.012	Primary osteoarthritis, left shoulder	ICD-10-CM
M19.019	Primary osteoarthritis, unspecified shoulder	ICD-10-CM
M19.021	Primary osteoarthritis, right elbow	ICD-10-CM
M19.022	Primary osteoarthritis, left elbow	ICD-10-CM
M19.029	Primary osteoarthritis, unspecified elbow	ICD-10-CM
M19.031	Primary osteoarthritis, right wrist	ICD-10-CM
M19.032	Primary osteoarthritis, left wrist	ICD-10-CM
M19.039	Primary osteoarthritis, unspecified wrist	ICD-10-CM
M19.041	Primary osteoarthritis, right hand	ICD-10-CM
M19.042	Primary osteoarthritis, left hand	ICD-10-CM
M19.049	Primary osteoarthritis, unspecified hand	ICD-10-CM
M19.071	Primary osteoarthritis, right ankle and foot	ICD-10-CM
M19.072	Primary osteoarthritis, left ankle and foot	ICD-10-CM
M19.079	Primary osteoarthritis, unspecified ankle and foot	ICD-10-CM
M19.111	Post-traumatic osteoarthritis, right shoulder	ICD-10-CM
M19.112	Post-traumatic osteoarthritis, left shoulder	ICD-10-CM
M19.119	Post-traumatic osteoarthritis, unspecified shoulder	ICD-10-CM
M19.121	Post-traumatic osteoarthritis, right elbow	ICD-10-CM
M19.122	Post-traumatic osteoarthritis, left elbow	ICD-10-CM
M19.129	Post-traumatic osteoarthritis, unspecified elbow	ICD-10-CM
M19.131	Post-traumatic osteoarthritis, right wrist	ICD-10-CM
M19.132	Post-traumatic osteoarthritis, left wrist	ICD-10-CM
M19.139	Post-traumatic osteoarthritis, unspecified wrist	ICD-10-CM
M19.141	Post-traumatic osteoarthritis, right hand	ICD-10-CM
M19.142	Post-traumatic osteoarthritis, left hand	ICD-10-CM
M19.149	Post-traumatic osteoarthritis, unspecified hand	ICD-10-CM
M19.171	Post-traumatic osteoarthritis, right ankle and foot	ICD-10-CM
M19.172	Post-traumatic osteoarthritis, left ankle and foot	ICD-10-CM
M19.179	Post-traumatic osteoarthritis, unspecified ankle and foot	ICD-10-CM
M19.211	Secondary osteoarthritis, right shoulder	ICD-10-CM
M19.212	Secondary osteoarthritis, left shoulder	ICD-10-CM
M19.219	Secondary osteoarthritis, unspecified shoulder	ICD-10-CM
M19.221	Secondary osteoarthritis, right elbow	ICD-10-CM
M19.222	Secondary osteoarthritis, left elbow	ICD-10-CM
M19.229	Secondary osteoarthritis, unspecified elbow	ICD-10-CM
M19.231	Secondary osteoarthritis, right wrist	ICD-10-CM
M19.232	Secondary osteoarthritis, left wrist	ICD-10-CM
M19.239	Secondary osteoarthritis, unspecified wrist	ICD-10-CM
M19.241	Secondary osteoarthritis, right hand	ICD-10-CM
M19.242	Secondary osteoarthritis, left hand	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M19.249	Secondary osteoarthritis, unspecified hand	ICD-10-CM
M19.271	Secondary osteoarthritis, right ankle and foot	ICD-10-CM
M19.272	Secondary osteoarthritis, left ankle and foot	ICD-10-CM
M19.279	Secondary osteoarthritis, unspecified ankle and foot	ICD-10-CM
M19.90	Unspecified osteoarthritis, unspecified site	ICD-10-CM
M19.91	Primary osteoarthritis, unspecified site	ICD-10-CM
M19.92	Post-traumatic osteoarthritis, unspecified site	ICD-10-CM
M19.93	Secondary osteoarthritis, unspecified site	ICD-10-CM
M45.0	Ankylosing spondylitis of multiple sites in spine	ICD-10-CM
M45.1	Ankylosing spondylitis of occipito-atlanto-axial region	ICD-10-CM
M45.2	Ankylosing spondylitis of cervical region	ICD-10-CM
M45.3	Ankylosing spondylitis of cervicothoracic region	ICD-10-CM
M45.4	Ankylosing spondylitis of thoracic region	ICD-10-CM
M45.5	Ankylosing spondylitis of thoracolumbar region	ICD-10-CM
M45.6	Ankylosing spondylitis lumbar region	ICD-10-CM
M45.7	Ankylosing spondylitis of lumbosacral region	ICD-10-CM
M45.8	Ankylosing spondylitis sacral and sacrococcygeal region	ICD-10-CM
M45.9	Ankylosing spondylitis of unspecified sites in spine	ICD-10-CM
M47.011	Anterior spinal artery compression syndromes, occipito-atlanto-axial region	ICD-10-CM
M47.012	Anterior spinal artery compression syndromes, cervical region	ICD-10-CM
M47.013	Anterior spinal artery compression syndromes, cervicothoracic region	ICD-10-CM
M47.014	Anterior spinal artery compression syndromes, thoracic region	ICD-10-CM
M47.015	Anterior spinal artery compression syndromes, thoracolumbar region	ICD-10-CM
M47.016	Anterior spinal artery compression syndromes, lumbar region	ICD-10-CM
M47.019	Anterior spinal artery compression syndromes, site unspecified	ICD-10-CM
M47.021	Vertebral artery compression syndromes, occipito-atlanto-axial region	ICD-10-CM
M47.022	Vertebral artery compression syndromes, cervical region	ICD-10-CM
M47.029	Vertebral artery compression syndromes, site unspecified	ICD-10-CM
M47.10	Other spondylosis with myelopathy, site unspecified	ICD-10-CM
M47.11	Other spondylosis with myelopathy, occipito-atlanto-axial region	ICD-10-CM
M47.12	Other spondylosis with myelopathy, cervical region	ICD-10-CM
M47.13	Other spondylosis with myelopathy, cervicothoracic region	ICD-10-CM
M47.20	Other spondylosis with radiculopathy, site unspecified	ICD-10-CM
M47.21	Other spondylosis with radiculopathy, occipito-atlanto-axial region	ICD-10-CM
M47.22	Other spondylosis with radiculopathy, cervical region	ICD-10-CM
M47.23	Other spondylosis with radiculopathy, cervicothoracic region	ICD-10-CM
M47.24	Other spondylosis with radiculopathy, thoracic region	ICD-10-CM
M47.25	Other spondylosis with radiculopathy, thoracolumbar region	ICD-10-CM
M47.26	Other spondylosis with radiculopathy, lumbar region	ICD-10-CM
M47.27	Other spondylosis with radiculopathy, lumbosacral region	ICD-10-CM
M47.28	Other spondylosis with radiculopathy, sacral and sacrococcygeal region	ICD-10-CM
M47.811	Spondylosis without myelopathy or radiculopathy, occipito-atlanto-axial region	ICD-10-CM
M47.812	Spondylosis without myelopathy or radiculopathy, cervical region	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
M47.813	Spondylosis without myelopathy or radiculopathy, cervicothoracic region	ICD-10-CM
M47.814	Spondylosis without myelopathy or radiculopathy, thoracic region	ICD-10-CM
M47.815	Spondylosis without myelopathy or radiculopathy, thoracolumbar region	ICD-10-CM
M47.816	Spondylosis without myelopathy or radiculopathy, lumbar region	ICD-10-CM
M47.817	Spondylosis without myelopathy or radiculopathy, lumbosacral region	ICD-10-CM
M47.818	Spondylosis without myelopathy or radiculopathy, sacral and sacrococcygeal region	ICD-10-CM
M47.819	Spondylosis without myelopathy or radiculopathy, site unspecified	ICD-10-CM
M47.891	Other spondylosis, occipito-atlanto-axial region	ICD-10-CM
M47.892	Other spondylosis, cervical region	ICD-10-CM
M47.893	Other spondylosis, cervicothoracic region	ICD-10-CM
M47.894	Other spondylosis, thoracic region	ICD-10-CM
M47.895	Other spondylosis, thoracolumbar region	ICD-10-CM
M47.896	Other spondylosis, lumbar region	ICD-10-CM
M47.897	Other spondylosis, lumbosacral region	ICD-10-CM
M47.898	Other spondylosis, sacral and sacrococcygeal region	ICD-10-CM
M47.899	Other spondylosis, site unspecified	ICD-10-CM
M47.9	Spondylosis, unspecified	ICD-10-CM
M48.8X1	Other specified spondylopathies, occipito-atlanto-axial region	ICD-10-CM
M48.8X2	Other specified spondylopathies, cervical region	ICD-10-CM
M48.8X3	Other specified spondylopathies, cervicothoracic region	ICD-10-CM
M48.8X4	Other specified spondylopathies, thoracic region	ICD-10-CM
M48.8X5	Other specified spondylopathies, thoracolumbar region	ICD-10-CM
M48.8X6	Other specified spondylopathies, lumbar region	ICD-10-CM
M48.8X7	Other specified spondylopathies, lumbosacral region	ICD-10-CM
M48.8X8	Other specified spondylopathies, sacral and sacrococcygeal region	ICD-10-CM
M48.8X9	Other specified spondylopathies, site unspecified	ICD-10-CM
<b>Stroke/Transient Ischemic Attack</b>		
430	Subarachnoid hemorrhage	ICD-9-CM
431	Intracerebral hemorrhage	ICD-9-CM
433.01	Occlusion and stenosis of basilar artery with cerebral infarction	ICD-9-CM
433.11	Occlusion and stenosis of carotid artery with cerebral infarction	ICD-9-CM
433.21	Occlusion and stenosis of vertebral artery with cerebral infarction	ICD-9-CM
433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction	ICD-9-CM
433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction	ICD-9-CM
433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction	ICD-9-CM
434.00	Cerebral thrombosis without mention of cerebral infarction	ICD-9-CM
434.01	Cerebral thrombosis with cerebral infarction	ICD-9-CM
434.10	Cerebral embolism without mention of cerebral infarction	ICD-9-CM
434.11	Cerebral embolism with cerebral infarction	ICD-9-CM
434.90	Unspecified cerebral artery occlusion without mention of cerebral infarction	ICD-9-CM
434.91	Unspecified cerebral artery occlusion with cerebral infarction	ICD-9-CM
435.0	Basilar artery syndrome	ICD-9-CM
435.1	Vertebral artery syndrome	ICD-9-CM



**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
435.3	Vertebrobasilar artery syndrome	ICD-9-CM
435.8	Other specified transient cerebral ischemias	ICD-9-CM
435.9	Unspecified transient cerebral ischemia	ICD-9-CM
436	Acute, but ill-defined, cerebrovascular disease	ICD-9-CM
997.02	Iatrogenic cerebrovascular infarction or hemorrhage	ICD-9-CM
G45.0	Vertebro-basilar artery syndrome	ICD-10-CM
G45.1	Carotid artery syndrome (hemispheric)	ICD-10-CM
G45.2	Multiple and bilateral precerebral artery syndromes	ICD-10-CM
G45.8	Other transient cerebral ischemic attacks and related syndromes	ICD-10-CM
G45.9	Transient cerebral ischemic attack, unspecified	ICD-10-CM
G46.0	Middle cerebral artery syndrome	ICD-10-CM
G46.1	Anterior cerebral artery syndrome	ICD-10-CM
G46.2	Posterior cerebral artery syndrome	ICD-10-CM
G46.3	Brain stem stroke syndrome	ICD-10-CM
G46.4	Cerebellar stroke syndrome	ICD-10-CM
G46.5	Pure motor lacunar syndrome	ICD-10-CM
G46.6	Pure sensory lacunar syndrome	ICD-10-CM
G46.7	Other lacunar syndromes	ICD-10-CM
G46.8	Other vascular syndromes of brain in cerebrovascular diseases	ICD-10-CM
G97.31	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating a nervous system procedure	ICD-10-CM
G97.32	Intraoperative hemorrhage and hematoma of a nervous system organ or structure complicating other procedure	ICD-10-CM
I60.00	Nontraumatic subarachnoid hemorrhage from unspecified carotid siphon and bifurcation	ICD-10-CM
I60.01	Nontraumatic subarachnoid hemorrhage from right carotid siphon and bifurcation	ICD-10-CM
I60.02	Nontraumatic subarachnoid hemorrhage from left carotid siphon and bifurcation	ICD-10-CM
I60.10	Nontraumatic subarachnoid hemorrhage from unspecified middle cerebral artery	ICD-10-CM
I60.11	Nontraumatic subarachnoid hemorrhage from right middle cerebral artery	ICD-10-CM
I60.12	Nontraumatic subarachnoid hemorrhage from left middle cerebral artery	ICD-10-CM
I60.20	Nontraumatic subarachnoid hemorrhage from unspecified anterior communicating artery	ICD-10-CM
I60.21	Nontraumatic subarachnoid hemorrhage from right anterior communicating artery	ICD-10-CM
I60.22	Nontraumatic subarachnoid hemorrhage from left anterior communicating artery	ICD-10-CM
I60.30	Nontraumatic subarachnoid hemorrhage from unspecified posterior communicating artery	ICD-10-CM
I60.31	Nontraumatic subarachnoid hemorrhage from right posterior communicating artery	ICD-10-CM
I60.32	Nontraumatic subarachnoid hemorrhage from left posterior communicating artery	ICD-10-CM
I60.4	Nontraumatic subarachnoid hemorrhage from basilar artery	ICD-10-CM
I60.50	Nontraumatic subarachnoid hemorrhage from unspecified vertebral artery	ICD-10-CM
I60.51	Nontraumatic subarachnoid hemorrhage from right vertebral artery	ICD-10-CM
I60.52	Nontraumatic subarachnoid hemorrhage from left vertebral artery	ICD-10-CM
I60.6	Nontraumatic subarachnoid hemorrhage from other intracranial arteries	ICD-10-CM
I60.7	Nontraumatic subarachnoid hemorrhage from unspecified intracranial artery	ICD-10-CM
I60.8	Other nontraumatic subarachnoid hemorrhage	ICD-10-CM
I60.9	Nontraumatic subarachnoid hemorrhage, unspecified	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I61.0	Nontraumatic intracerebral hemorrhage in hemisphere, subcortical	ICD-10-CM
I61.1	Nontraumatic intracerebral hemorrhage in hemisphere, cortical	ICD-10-CM
I61.2	Nontraumatic intracerebral hemorrhage in hemisphere, unspecified	ICD-10-CM
I61.3	Nontraumatic intracerebral hemorrhage in brain stem	ICD-10-CM
I61.4	Nontraumatic intracerebral hemorrhage in cerebellum	ICD-10-CM
I61.5	Nontraumatic intracerebral hemorrhage, intraventricular	ICD-10-CM
I61.6	Nontraumatic intracerebral hemorrhage, multiple localized	ICD-10-CM
I61.8	Other nontraumatic intracerebral hemorrhage	ICD-10-CM
I61.9	Nontraumatic intracerebral hemorrhage, unspecified	ICD-10-CM
I63.00	Cerebral infarction due to thrombosis of unspecified precerebral artery	ICD-10-CM
I63.011	Cerebral infarction due to thrombosis of right vertebral artery	ICD-10-CM
I63.012	Cerebral infarction due to thrombosis of left vertebral artery	ICD-10-CM
I63.013	Cerebral infarction due to thrombosis of bilateral vertebral arteries	ICD-10-CM
I63.019	Cerebral infarction due to thrombosis of unspecified vertebral artery	ICD-10-CM
I63.02	Cerebral infarction due to thrombosis of basilar artery	ICD-10-CM
I63.031	Cerebral infarction due to thrombosis of right carotid artery	ICD-10-CM
I63.032	Cerebral infarction due to thrombosis of left carotid artery	ICD-10-CM
I63.039	Cerebral infarction due to thrombosis of unspecified carotid artery	ICD-10-CM
I63.09	Cerebral infarction due to thrombosis of other precerebral artery	ICD-10-CM
I63.10	Cerebral infarction due to embolism of unspecified precerebral artery	ICD-10-CM
I63.111	Cerebral infarction due to embolism of right vertebral artery	ICD-10-CM
I63.112	Cerebral infarction due to embolism of left vertebral artery	ICD-10-CM
I63.119	Cerebral infarction due to embolism of unspecified vertebral artery	ICD-10-CM
I63.12	Cerebral infarction due to embolism of basilar artery	ICD-10-CM
I63.131	Cerebral infarction due to embolism of right carotid artery	ICD-10-CM
I63.132	Cerebral infarction due to embolism of left carotid artery	ICD-10-CM
I63.139	Cerebral infarction due to embolism of unspecified carotid artery	ICD-10-CM
I63.19	Cerebral infarction due to embolism of other precerebral artery	ICD-10-CM
I63.20	Cerebral infarction due to unspecified occlusion or stenosis of unspecified precerebral arteries	ICD-10-CM
I63.211	Cerebral infarction due to unspecified occlusion or stenosis of right vertebral artery	ICD-10-CM
I63.212	Cerebral infarction due to unspecified occlusion or stenosis of left vertebral artery	ICD-10-CM
I63.213	Cerebral infarction due to unspecified occlusion or stenosis of bilateral vertebral arteries	ICD-10-CM
I63.219	Cerebral infarction due to unspecified occlusion or stenosis of unspecified vertebral arteries	ICD-10-CM
I63.22	Cerebral infarction due to unspecified occlusion or stenosis of basilar artery	ICD-10-CM
I63.231	Cerebral infarction due to unspecified occlusion or stenosis of right carotid arteries	ICD-10-CM
I63.232	Cerebral infarction due to unspecified occlusion or stenosis of left carotid arteries	ICD-10-CM
I63.233	Cerebral infarction due to unspecified occlusion or stenosis of bilateral carotid arteries	ICD-10-CM
I63.239	Cerebral infarction due to unspecified occlusion or stenosis of unspecified carotid arteries	ICD-10-CM
I63.29	Cerebral infarction due to unspecified occlusion or stenosis of other precerebral arteries	ICD-10-CM
I63.30	Cerebral infarction due to thrombosis of unspecified cerebral artery	ICD-10-CM
I63.311	Cerebral infarction due to thrombosis of right middle cerebral artery	ICD-10-CM
I63.312	Cerebral infarction due to thrombosis of left middle cerebral artery	ICD-10-CM
I63.313	Cerebral infarction due to thrombosis of bilateral middle cerebral arteries	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I63.319	Cerebral infarction due to thrombosis of unspecified middle cerebral artery	ICD-10-CM
I63.321	Cerebral infarction due to thrombosis of right anterior cerebral artery	ICD-10-CM
I63.322	Cerebral infarction due to thrombosis of left anterior cerebral artery	ICD-10-CM
I63.323	Cerebral infarction due to thrombosis of bilateral anterior cerebral arteries	ICD-10-CM
I63.329	Cerebral infarction due to thrombosis of unspecified anterior cerebral artery	ICD-10-CM
I63.331	Cerebral infarction due to thrombosis of right posterior cerebral artery	ICD-10-CM
I63.332	Cerebral infarction due to thrombosis of left posterior cerebral artery	ICD-10-CM
I63.333	Cerebral infarction to thrombosis of bilateral posterior cerebral arteries	ICD-10-CM
I63.339	Cerebral infarction due to thrombosis of unspecified posterior cerebral artery	ICD-10-CM
I63.341	Cerebral infarction due to thrombosis of right cerebellar artery	ICD-10-CM
I63.342	Cerebral infarction due to thrombosis of left cerebellar artery	ICD-10-CM
I63.343	Cerebral infarction to thrombosis of bilateral cerebellar arteries	ICD-10-CM
I63.349	Cerebral infarction due to thrombosis of unspecified cerebellar artery	ICD-10-CM
I63.39	Cerebral infarction due to thrombosis of other cerebral artery	ICD-10-CM
I63.40	Cerebral infarction due to embolism of unspecified cerebral artery	ICD-10-CM
I63.411	Cerebral infarction due to embolism of right middle cerebral artery	ICD-10-CM
I63.412	Cerebral infarction due to embolism of left middle cerebral artery	ICD-10-CM
I63.413	Cerebral infarction due to embolism of bilateral middle cerebral arteries	ICD-10-CM
I63.419	Cerebral infarction due to embolism of unspecified middle cerebral artery	ICD-10-CM
I63.421	Cerebral infarction due to embolism of right anterior cerebral artery	ICD-10-CM
I63.422	Cerebral infarction due to embolism of left anterior cerebral artery	ICD-10-CM
I63.423	Cerebral infarction due to embolism of bilateral anterior cerebral arteries	ICD-10-CM
I63.429	Cerebral infarction due to embolism of unspecified anterior cerebral artery	ICD-10-CM
I63.431	Cerebral infarction due to embolism of right posterior cerebral artery	ICD-10-CM
I63.432	Cerebral infarction due to embolism of left posterior cerebral artery	ICD-10-CM
I63.433	Cerebral infarction due to embolism of bilateral posterior cerebral arteries	ICD-10-CM
I63.439	Cerebral infarction due to embolism of unspecified posterior cerebral artery	ICD-10-CM
I63.441	Cerebral infarction due to embolism of right cerebellar artery	ICD-10-CM
I63.442	Cerebral infarction due to embolism of left cerebellar artery	ICD-10-CM
I63.443	Cerebral infarction due to embolism of bilateral cerebellar arteries	ICD-10-CM
I63.449	Cerebral infarction due to embolism of unspecified cerebellar artery	ICD-10-CM
I63.49	Cerebral infarction due to embolism of other cerebral artery	ICD-10-CM
I63.50	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebral artery	ICD-10-CM
I63.511	Cerebral infarction due to unspecified occlusion or stenosis of right middle cerebral artery	ICD-10-CM
I63.512	Cerebral infarction due to unspecified occlusion or stenosis of left middle cerebral artery	ICD-10-CM
I63.513	Cerebral infarction due to unspecified occlusion or stenosis of bilateral middle cerebral arteries	ICD-10-CM
I63.519	Cerebral infarction due to unspecified occlusion or stenosis of unspecified middle cerebral artery	ICD-10-CM
I63.521	Cerebral infarction due to unspecified occlusion or stenosis of right anterior cerebral artery	ICD-10-CM
I63.522	Cerebral infarction due to unspecified occlusion or stenosis of left anterior cerebral artery	ICD-10-CM
I63.523	Cerebral infarction due to unspecified occlusion or stenosis of bilateral anterior cerebral arteries	ICD-10-CM
I63.529	Cerebral infarction due to unspecified occlusion or stenosis of unspecified anterior cerebral artery	ICD-10-CM
I63.531	Cerebral infarction due to unspecified occlusion or stenosis of right posterior cerebral artery	ICD-10-CM
I63.532	Cerebral infarction due to unspecified occlusion or stenosis of left posterior cerebral artery	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
I63.533	Cerebral infarction due to unspecified occlusion or stenosis of bilateral posterior cerebral arteries	ICD-10-CM
I63.539	Cerebral infarction due to unspecified occlusion or stenosis of unspecified posterior cerebral artery	ICD-10-CM
I63.541	Cerebral infarction due to unspecified occlusion or stenosis of right cerebellar artery	ICD-10-CM
I63.542	Cerebral infarction due to unspecified occlusion or stenosis of left cerebellar artery	ICD-10-CM
I63.543	Cerebral infarction due to unspecified occlusion or stenosis of bilateral cerebellar arteries	ICD-10-CM
I63.549	Cerebral infarction due to unspecified occlusion or stenosis of unspecified cerebellar artery	ICD-10-CM
I63.59	Cerebral infarction due to unspecified occlusion or stenosis of other cerebral artery	ICD-10-CM
I63.6	Cerebral infarction due to cerebral venous thrombosis, nonpyogenic	ICD-10-CM
I63.8	Other cerebral infarction	ICD-10-CM
I63.9	Cerebral infarction, unspecified	ICD-10-CM
I66.01	Occlusion and stenosis of right middle cerebral artery	ICD-10-CM
I66.02	Occlusion and stenosis of left middle cerebral artery	ICD-10-CM
I66.03	Occlusion and stenosis of bilateral middle cerebral arteries	ICD-10-CM
I66.09	Occlusion and stenosis of unspecified middle cerebral artery	ICD-10-CM
I66.11	Occlusion and stenosis of right anterior cerebral artery	ICD-10-CM
I66.12	Occlusion and stenosis of left anterior cerebral artery	ICD-10-CM
I66.13	Occlusion and stenosis of bilateral anterior cerebral arteries	ICD-10-CM
I66.19	Occlusion and stenosis of unspecified anterior cerebral artery	ICD-10-CM
I66.21	Occlusion and stenosis of right posterior cerebral artery	ICD-10-CM
I66.22	Occlusion and stenosis of left posterior cerebral artery	ICD-10-CM
I66.23	Occlusion and stenosis of bilateral posterior cerebral arteries	ICD-10-CM
I66.29	Occlusion and stenosis of unspecified posterior cerebral artery	ICD-10-CM
I66.3	Occlusion and stenosis of cerebellar arteries	ICD-10-CM
I66.8	Occlusion and stenosis of other cerebral arteries	ICD-10-CM
I66.9	Occlusion and stenosis of unspecified cerebral artery	ICD-10-CM
I67.841	Reversible cerebrovascular vasoconstriction syndrome	ICD-10-CM
I67.848	Other cerebrovascular vasospasm and vasoconstriction	ICD-10-CM
I67.89	Other cerebrovascular disease	ICD-10-CM
I97.810	Intraoperative cerebrovascular infarction during cardiac surgery	ICD-10-CM
I97.811	Intraoperative cerebrovascular infarction during other surgery	ICD-10-CM
I97.820	Postprocedural cerebrovascular infarction following cardiac surgery	ICD-10-CM
I97.821	Postprocedural cerebrovascular infarction following other surgery	ICD-10-CM
<b>Breast Cancer</b>		
174.0	Malignant neoplasm of nipple and areola of female breast	ICD-9-CM
174.1	Malignant neoplasm of central portion of female breast	ICD-9-CM
174.2	Malignant neoplasm of upper-inner quadrant of female breast	ICD-9-CM
174.3	Malignant neoplasm of lower-inner quadrant of female breast	ICD-9-CM
174.4	Malignant neoplasm of upper-outer quadrant of female breast	ICD-9-CM
174.5	Malignant neoplasm of lower-outer quadrant of female breast	ICD-9-CM
174.6	Malignant neoplasm of axillary tail of female breast	ICD-9-CM
174.8	Malignant neoplasm of other specified sites of female breast	ICD-9-CM
174.9	Malignant neoplasm of breast (female), unspecified site	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
175.0	Malignant neoplasm of nipple and areola of male breast	ICD-9-CM
175.9	Malignant neoplasm of other and unspecified sites of male breast	ICD-9-CM
233.0	Carcinoma in situ of breast	ICD-9-CM
V10.3	Personal history of malignant neoplasm of breast	ICD-9-CM
C50.011	Malignant neoplasm of nipple and areola, right female breast	ICD-10-CM
C50.012	Malignant neoplasm of nipple and areola, left female breast	ICD-10-CM
C50.019	Malignant neoplasm of nipple and areola, unspecified female breast	ICD-10-CM
C50.021	Malignant neoplasm of nipple and areola, right male breast	ICD-10-CM
C50.022	Malignant neoplasm of nipple and areola, left male breast	ICD-10-CM
C50.029	Malignant neoplasm of nipple and areola, unspecified male breast	ICD-10-CM
C50.111	Malignant neoplasm of central portion of right female breast	ICD-10-CM
C50.112	Malignant neoplasm of central portion of left female breast	ICD-10-CM
C50.119	Malignant neoplasm of central portion of unspecified female breast	ICD-10-CM
C50.121	Malignant neoplasm of central portion of right male breast	ICD-10-CM
C50.122	Malignant neoplasm of central portion of left male breast	ICD-10-CM
C50.129	Malignant neoplasm of central portion of unspecified male breast	ICD-10-CM
C50.211	Malignant neoplasm of upper-inner quadrant of right female breast	ICD-10-CM
C50.212	Malignant neoplasm of upper-inner quadrant of left female breast	ICD-10-CM
C50.219	Malignant neoplasm of upper-inner quadrant of unspecified female breast	ICD-10-CM
C50.221	Malignant neoplasm of upper-inner quadrant of right male breast	ICD-10-CM
C50.222	Malignant neoplasm of upper-inner quadrant of left male breast	ICD-10-CM
C50.229	Malignant neoplasm of upper-inner quadrant of unspecified male breast	ICD-10-CM
C50.311	Malignant neoplasm of lower-inner quadrant of right female breast	ICD-10-CM
C50.312	Malignant neoplasm of lower-inner quadrant of left female breast	ICD-10-CM
C50.319	Malignant neoplasm of lower-inner quadrant of unspecified female breast	ICD-10-CM
C50.321	Malignant neoplasm of lower-inner quadrant of right male breast	ICD-10-CM
C50.322	Malignant neoplasm of lower-inner quadrant of left male breast	ICD-10-CM
C50.329	Malignant neoplasm of lower-inner quadrant of unspecified male breast	ICD-10-CM
C50.411	Malignant neoplasm of upper-outer quadrant of right female breast	ICD-10-CM
C50.412	Malignant neoplasm of upper-outer quadrant of left female breast	ICD-10-CM
C50.419	Malignant neoplasm of upper-outer quadrant of unspecified female breast	ICD-10-CM
C50.421	Malignant neoplasm of upper-outer quadrant of right male breast	ICD-10-CM
C50.422	Malignant neoplasm of upper-outer quadrant of left male breast	ICD-10-CM
C50.429	Malignant neoplasm of upper-outer quadrant of unspecified male breast	ICD-10-CM
C50.511	Malignant neoplasm of lower-outer quadrant of right female breast	ICD-10-CM
C50.512	Malignant neoplasm of lower-outer quadrant of left female breast	ICD-10-CM
C50.519	Malignant neoplasm of lower-outer quadrant of unspecified female breast	ICD-10-CM
C50.521	Malignant neoplasm of lower-outer quadrant of right male breast	ICD-10-CM
C50.522	Malignant neoplasm of lower-outer quadrant of left male breast	ICD-10-CM
C50.529	Malignant neoplasm of lower-outer quadrant of unspecified male breast	ICD-10-CM
C50.611	Malignant neoplasm of axillary tail of right female breast	ICD-10-CM
C50.612	Malignant neoplasm of axillary tail of left female breast	ICD-10-CM
C50.619	Malignant neoplasm of axillary tail of unspecified female breast	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
C50.621	Malignant neoplasm of axillary tail of right male breast	ICD-10-CM
C50.622	Malignant neoplasm of axillary tail of left male breast	ICD-10-CM
C50.629	Malignant neoplasm of axillary tail of unspecified male breast	ICD-10-CM
C50.811	Malignant neoplasm of overlapping sites of right female breast	ICD-10-CM
C50.812	Malignant neoplasm of overlapping sites of left female breast	ICD-10-CM
C50.819	Malignant neoplasm of overlapping sites of unspecified female breast	ICD-10-CM
C50.821	Malignant neoplasm of overlapping sites of right male breast	ICD-10-CM
C50.822	Malignant neoplasm of overlapping sites of left male breast	ICD-10-CM
C50.829	Malignant neoplasm of overlapping sites of unspecified male breast	ICD-10-CM
C50.911	Malignant neoplasm of unspecified site of right female breast	ICD-10-CM
C50.912	Malignant neoplasm of unspecified site of left female breast	ICD-10-CM
C50.919	Malignant neoplasm of unspecified site of unspecified female breast	ICD-10-CM
C50.921	Malignant neoplasm of unspecified site of right male breast	ICD-10-CM
C50.922	Malignant neoplasm of unspecified site of left male breast	ICD-10-CM
C50.929	Malignant neoplasm of unspecified site of unspecified male breast	ICD-10-CM
D05.00	Lobular carcinoma in situ of unspecified breast	ICD-10-CM
D05.01	Lobular carcinoma in situ of right breast	ICD-10-CM
D05.02	Lobular carcinoma in situ of left breast	ICD-10-CM
D05.10	Intraductal carcinoma in situ of unspecified breast	ICD-10-CM
D05.11	Intraductal carcinoma in situ of right breast	ICD-10-CM
D05.12	Intraductal carcinoma in situ of left breast	ICD-10-CM
D05.80	Other specified type of carcinoma in situ of unspecified breast	ICD-10-CM
D05.81	Other specified type of carcinoma in situ of right breast	ICD-10-CM
D05.82	Other specified type of carcinoma in situ of left breast	ICD-10-CM
D05.90	Unspecified type of carcinoma in situ of unspecified breast	ICD-10-CM
D05.91	Unspecified type of carcinoma in situ of right breast	ICD-10-CM
D05.92	Unspecified type of carcinoma in situ of left breast	ICD-10-CM
Z85.3	Personal history of malignant neoplasm of breast	ICD-10-CM
<b>Colorectal Cancer</b>		
153.0	Malignant neoplasm of hepatic flexure	ICD-9-CM
153.1	Malignant neoplasm of transverse colon	ICD-9-CM
153.2	Malignant neoplasm of descending colon	ICD-9-CM
153.3	Malignant neoplasm of sigmoid colon	ICD-9-CM
153.4	Malignant neoplasm of cecum	ICD-9-CM
153.5	Malignant neoplasm of appendix	ICD-9-CM
153.6	Malignant neoplasm of ascending colon	ICD-9-CM
153.7	Malignant neoplasm of splenic flexure	ICD-9-CM
153.8	Malignant neoplasm of other specified sites of large intestine	ICD-9-CM
153.9	Malignant neoplasm of colon, unspecified site	ICD-9-CM
154.0	Malignant neoplasm of rectosigmoid junction	ICD-9-CM
154.1	Malignant neoplasm of rectum	ICD-9-CM
230.3	Carcinoma in situ of colon	ICD-9-CM
230.4	Carcinoma in situ of rectum	ICD-9-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
V10.05	Personal history of malignant neoplasm of large intestine	ICD-9-CM
V10.06	Personal history of malignant neoplasm of rectum, rectosigmoid junction, and anus	ICD-9-CM
C18.0	Malignant neoplasm of cecum	ICD-10-CM
C18.1	Malignant neoplasm of appendix	ICD-10-CM
C18.2	Malignant neoplasm of ascending colon	ICD-10-CM
C18.3	Malignant neoplasm of hepatic flexure	ICD-10-CM
C18.4	Malignant neoplasm of transverse colon	ICD-10-CM
C18.5	Malignant neoplasm of splenic flexure	ICD-10-CM
C18.6	Malignant neoplasm of descending colon	ICD-10-CM
C18.7	Malignant neoplasm of sigmoid colon	ICD-10-CM
C18.8	Malignant neoplasm of overlapping sites of colon	ICD-10-CM
C18.9	Malignant neoplasm of colon, unspecified	ICD-10-CM
C19	Malignant neoplasm of rectosigmoid junction	ICD-10-CM
C20	Malignant neoplasm of rectum	ICD-10-CM
D01.0	Carcinoma in situ of colon	ICD-10-CM
D01.1	Carcinoma in situ of rectosigmoid junction	ICD-10-CM
D01.2	Carcinoma in situ of rectum	ICD-10-CM
Z85.038	Personal history of other malignant neoplasm of large intestine	ICD-10-CM
Z85.040	Personal history of malignant carcinoid tumor of rectum	ICD-10-CM
Z85.048	Personal history of other malignant neoplasm of rectum, rectosigmoid junction, and anus	ICD-10-CM
<b>Prostate Cancer</b>		
185	Malignant neoplasm of prostate	ICD-9-CM
233.4	Carcinoma in situ of prostate	ICD-9-CM
V10.46	Personal history of malignant neoplasm of prostate	ICD-9-CM
C61	Malignant neoplasm of prostate	ICD-10-CM
D07.5	Carcinoma in situ of prostate	ICD-10-CM
Z85.46	Personal history of malignant neoplasm of prostate	ICD-10-CM
<b>Lung Cancer</b>		
162.2	Malignant neoplasm of main bronchus	ICD-9-CM
162.3	Malignant neoplasm of upper lobe, bronchus, or lung	ICD-9-CM
162.4	Malignant neoplasm of middle lobe, bronchus, or lung	ICD-9-CM
162.5	Malignant neoplasm of lower lobe, bronchus, or lung	ICD-9-CM
162.8	Malignant neoplasm of other parts of bronchus or lung	ICD-9-CM
162.9	Malignant neoplasm of bronchus and lung, unspecified site	ICD-9-CM
231.2	Carcinoma in situ of bronchus and lung	ICD-9-CM
V10.11	Personal history of malignant neoplasm of bronchus and lung	ICD-9-CM
C34.00	Malignant neoplasm of unspecified main bronchus	ICD-10-CM
C34.01	Malignant neoplasm of right main bronchus	ICD-10-CM
C34.02	Malignant neoplasm of left main bronchus	ICD-10-CM
C34.10	Malignant neoplasm of upper lobe, unspecified bronchus or lung	ICD-10-CM
C34.11	Malignant neoplasm of upper lobe, right bronchus or lung	ICD-10-CM
C34.12	Malignant neoplasm of upper lobe, left bronchus or lung	ICD-10-CM
C34.2	Malignant neoplasm of middle lobe, bronchus or lung	ICD-10-CM

**Appendix B. 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 Events in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
C34.30	Malignant neoplasm of lower lobe, unspecified bronchus or lung	ICD-10-CM
C34.31	Malignant neoplasm of lower lobe, right bronchus or lung	ICD-10-CM
C34.32	Malignant neoplasm of lower lobe, left bronchus or lung	ICD-10-CM
C34.80	Malignant neoplasm of overlapping sites of unspecified bronchus and lung	ICD-10-CM
C34.81	Malignant neoplasm of overlapping sites of right bronchus and lung	ICD-10-CM
C34.82	Malignant neoplasm of overlapping sites of left bronchus and lung	ICD-10-CM
C34.90	Malignant neoplasm of unspecified part of unspecified bronchus or lung	ICD-10-CM
C34.91	Malignant neoplasm of unspecified part of right bronchus or lung	ICD-10-CM
C34.92	Malignant neoplasm of unspecified part of left bronchus or lung	ICD-10-CM
D02.20	Carcinoma in situ of unspecified bronchus and lung	ICD-10-CM
D02.21	Carcinoma in situ of right bronchus and lung	ICD-10-CM
D02.22	Carcinoma in situ of left bronchus and lung	ICD-10-CM
Z85.110	Personal history of malignant carcinoid tumor of bronchus and lung	ICD-10-CM
Z85.118	Personal history of other malignant neoplasm of bronchus and lung	ICD-10-CM
<b>Endometrial Cancer</b>		
182.0	Malignant neoplasm of corpus uteri, except isthmus	ICD-9-CM
233.2	Carcinoma in situ of other and unspecified parts of uterus	ICD-9-CM
V10.42	Personal history of malignant neoplasm of other parts of the uterus	ICD-9-CM
C54.1	Malignant neoplasm of endometrium	ICD-10-CM
C54.2	Malignant neoplasm of myometrium	ICD-10-CM
C54.3	Malignant neoplasm of fundus uteri	ICD-10-CM
C54.8	Malignant neoplasm of overlapping sites of corpus uteri	ICD-10-CM
C54.9	Malignant neoplasm of corpus uteri, unspecified	ICD-10-CM
D07.0	Carcinoma in situ of endometrium	ICD-10-CM
Z85.42	Personal history of malignant neoplasm of other parts of uterus	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
<b>Benign Prostatic Hyperplasia</b>		
222.2	Benign neoplasm of prostate	ICD-9-CM
D29.1	Benign neoplasm of prostate	ICD-10-CM
<b>List 1: Stroke</b>		
800	Fracture of vault of skull	ICD-9-CM
800.0	Closed fracture of vault of skull without mention of intracranial injury	ICD-9-CM
800.00	Closed fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
800.01	Closed fracture of vault of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM
800.02	Closed fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
800.03	Closed fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.04	Closed fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.05	Closed fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.06	Closed fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
800.09	Closed fracture of vault of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM
800.1	Closed fracture of vault of skull with cerebral laceration and contusion	ICD-9-CM
800.10	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
800.11	Closed fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
800.12	Closed fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
800.13	Closed fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.14	Closed fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.15	Closed fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.16	Closed fracture of vault of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
800.19	Closed fracture of vault of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
800.2	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
800.20	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
800.21	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
800.22	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
800.23	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.24	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
800.25	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.26	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
800.29	Closed fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM
800.3	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage	ICD-9-CM
800.30	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
800.31	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss of	ICD-9-CM
800.32	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
800.33	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.34	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.35	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.36	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
800.39	Closed fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
800.4	Closed fracture of vault of skull with intercranial injury of other and unspecified nature	ICD-9-CM
800.40	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
800.41	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
800.42	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
800.43	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.44	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.45	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.46	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
800.49	Closed fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified	ICD-9-CM
800.5	Open fracture of vault of skull without mention of intracranial injury	ICD-9-CM
800.50	Open fracture of vault of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
800.51	Open fracture of vault of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM
800.52	Open fracture of vault of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
800.53	Open fracture of vault of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.54	Open fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.55	Open fracture of vault of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.56	Open fracture of vault of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
800.59	Open fracture of vault of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM
800.6	Open fracture of vault of skull with cerebral laceration and contusion	ICD-9-CM
800.60	Open fracture of vault of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
800.61	Open fracture of vault of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
800.62	Open fracture of vault of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
800.63	Open fracture of vault of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.64	Open fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.65	Open fracture of vault of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.66	Open fracture of vault of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
800.69	Open fracture of vault of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
800.7	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
800.70	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
800.71	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
800.72	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
800.73	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.74	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.75	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.76	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
800.79	Open fracture of vault of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified	ICD-9-CM
800.8	Open fracture of vault of skull with other and unspecified intracranial hemorrhage	ICD-9-CM
800.80	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
800.81	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
800.82	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
800.83	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.84	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.85	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.86	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
800.89	Open fracture of vault of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
800.9	Open fracture of vault of skull with intracranial injury of other and unspecified nature	ICD-9-CM
800.90	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
800.91	Open fracture of vault of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
800.92	Open fracture of vault of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
800.93	Open fracture of vault of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
800.94	Open fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
800.95	Open fracture of vault of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
800.96	Open fracture of vault of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
800.99	Open fracture of vault of skull with intracranial injury of other and unspecified nature, unspecified	ICD-9-CM
801	Fracture of base of skull	ICD-9-CM
801.0	Closed fracture of base of skull without mention of intracranial injury	ICD-9-CM
801.00	Closed fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
801.01	Closed fracture of base of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM
801.02	Closed fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
801.03	Closed fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.04	Closed fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.05	Closed fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.06	Closed fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
801.09	Closed fracture of base of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM
801.1	Closed fracture of base of skull with cerebral laceration and contusion	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
801.10	Closed fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
801.11	Closed fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
801.12	Closed fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
801.13	Closed fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.14	Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.15	Closed fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.16	Closed fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
801.19	Closed fracture of base of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
801.2	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
801.20	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
801.21	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
801.22	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
801.23	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.24	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.25	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.26	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
801.29	Closed fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM
801.3	Closed fracture of base of skull with other and unspecified intracranial hemorrhage	ICD-9-CM
801.30	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
801.31	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM
801.32	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
801.33	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.34	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.35	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
801.36	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
801.39	Closed fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
801.4	Closed fracture of base of skull with intracranial injury of other and unspecified nature	ICD-9-CM
801.40	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
801.41	Closed fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
801.42	Closed fracture of base of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
801.43	Closed fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.44	Closed fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.45	Closed fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.46	Closed fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
801.49	Closed fracture of base of skull with intracranial injury of other and unspecified nature, unspecified	ICD-9-CM
801.5	Open fracture of base of skull without mention of intracranial injury	ICD-9-CM
801.50	Open fracture of base of skull without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
801.51	Open fracture of base of skull without mention of intracranial injury, no loss of consciousness	ICD-9-CM
801.52	Open fracture of base of skull without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
801.53	Open fracture of base of skull without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.54	Open fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.55	Open fracture of base of skull without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.56	Open fracture of base of skull without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
801.59	Open fracture of base of skull without mention of intracranial injury, unspecified concussion	ICD-9-CM
801.6	Open fracture of base of skull with cerebral laceration and contusion	ICD-9-CM
801.60	Open fracture of base of skull with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
801.61	Open fracture of base of skull with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
801.62	Open fracture of base of skull with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
801.63	Open fracture of base of skull with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.64	Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
801.65	Open fracture of base of skull with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.66	Open fracture of base of skull with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
801.69	Open fracture of base of skull with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
801.7	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
801.70	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
801.71	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
801.72	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
801.73	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.74	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.75	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.76	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
801.79	Open fracture of base of skull with subarachnoid, subdural, and extradural hemorrhage, unspecified	ICD-9-CM
801.8	Open fracture of base of skull with other and unspecified intracranial hemorrhage	ICD-9-CM
801.80	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
801.81	Open fracture of base of skull with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM
801.82	Open fracture of base of skull with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
801.83	Open fracture of base of skull with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.84	Open fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.85	Open fracture of base of skull with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.86	Open fracture of base of skull with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
801.89	Open fracture of base of skull with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
801.9	Open fracture of base of skull with intracranial injury of other and unspecified nature	ICD-9-CM
801.90	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
801.91	Open fracture of base of skull with intracranial injury of other and unspecified nature, no loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
801.92	Open fracture of base of skull with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
801.93	Open fracture of base of skull with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
801.94	Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
801.95	Open fracture of base of skull with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
801.96	Open fracture of base of skull with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
801.99	Open fracture of base of skull with intracranial injury of other and unspecified nature, unspecified	ICD-9-CM
802	Fracture of face bones	ICD-9-CM
802.0	Nasal bones, closed fracture	ICD-9-CM
802.1	Nasal bones, open fracture	ICD-9-CM
802.2	Mandible, closed fracture	ICD-9-CM
802.20	Closed fracture of unspecified site of mandible	ICD-9-CM
802.21	Closed fracture of condylar process of mandible	ICD-9-CM
802.22	Closed fracture of subcondylar process of mandible	ICD-9-CM
802.23	Closed fracture of coronoid process of mandible	ICD-9-CM
802.24	Closed fracture of unspecified part of ramus of mandible	ICD-9-CM
802.25	Closed fracture of angle of jaw	ICD-9-CM
802.26	Closed fracture of symphysis of body of mandible	ICD-9-CM
802.27	Closed fracture of alveolar border of body of mandible	ICD-9-CM
802.28	Closed fracture of other and unspecified part of body of mandible	ICD-9-CM
802.29	Closed fracture of multiple sites of mandible	ICD-9-CM
802.3	Mandible, open fracture	ICD-9-CM
802.30	Open fracture of unspecified site of mandible	ICD-9-CM
802.31	Open fracture of condylar process of mandible	ICD-9-CM
802.32	Open fracture of subcondylar process of mandible	ICD-9-CM
802.33	Open fracture of coronoid process of mandible	ICD-9-CM
802.34	Open fracture of unspecified part of ramus of mandible	ICD-9-CM
802.35	Open fracture of angle of jaw	ICD-9-CM
802.36	Open fracture of symphysis of body of mandible	ICD-9-CM
802.37	Open fracture of alveolar border of body of mandible	ICD-9-CM
802.38	Open fracture of other and unspecified part of body of mandible	ICD-9-CM
802.39	Open fracture of multiple sites of mandible	ICD-9-CM
802.4	Malar and maxillary bones, closed fracture	ICD-9-CM
802.5	Malar and maxillary bones, open fracture	ICD-9-CM
802.6	Orbital floor (blow-out), closed fracture	ICD-9-CM
802.7	Orbital floor (blow-out), open fracture	ICD-9-CM
802.8	Other facial bones, closed fracture	ICD-9-CM
802.9	Other facial bones, open fracture	ICD-9-CM
803	Other and unqualified skull fractures	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
803.0	Other closed skull fracture without mention of intracranial injury	ICD-9-CM
803.00	Other closed skull fracture without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
803.01	Other closed skull fracture without mention of intracranial injury, no loss of consciousness	ICD-9-CM
803.02	Other closed skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
803.03	Other closed skull fracture without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.04	Other closed skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.05	Other closed skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.06	Other closed skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
803.09	Other closed skull fracture without mention of intracranial injury, unspecified concussion	ICD-9-CM
803.1	Other closed skull fracture with cerebral laceration and contusion	ICD-9-CM
803.10	Other closed skull fracture with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
803.11	Other closed skull fracture with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
803.12	Other closed skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
803.13	Other closed skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.14	Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.15	Other closed skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.16	Other closed skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
803.19	Other closed skull fracture with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
803.2	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
803.20	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
803.21	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
803.22	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
803.23	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.24	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.25	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.26	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
803.29	Other closed skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified	ICD-9-CM
803.3	Closed skull fracture with other and unspecified intracranial hemorrhage	ICD-9-CM
803.30	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified state of unconsciousness	ICD-9-CM
803.31	Other closed skull fracture with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM
803.32	Other closed skull fracture with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
803.33	Other closed skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.34	Other closed skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.35	Other closed skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.36	Other closed skull fracture with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
803.39	Other closed skull fracture with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
803.4	Other closed skull fracture with intracranial injury of other and unspecified nature	ICD-9-CM
803.40	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
803.41	Other closed skull fracture with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
803.42	Other closed skull fracture with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
803.43	Other closed skull fracture with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.44	Other closed skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.45	Other closed skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.46	Other closed skull fracture with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
803.49	Other closed skull fracture with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM
803.50	Other open skull fracture without mention of injury, state of consciousness unspecified	ICD-9-CM
803.5	Other open skull fracture without mention of intracranial injury	ICD-9-CM
803.51	Other open skull fracture without mention of intracranial injury, no loss of consciousness	ICD-9-CM
803.52	Other open skull fracture without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
803.53	Other open skull fracture without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.54	Other open skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
803.55	Other open skull fracture without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.56	Other open skull fracture without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
803.59	Other open skull fracture without mention of intracranial injury, unspecified concussion	ICD-9-CM
803.6	Other open skull fracture with cerebral laceration and contusion	ICD-9-CM
803.60	Other open skull fracture with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
803.61	Other open skull fracture with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
803.62	Other open skull fracture with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
803.63	Other open skull fracture with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.64	Other open skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.65	Other open skull fracture with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.66	Other open skull fracture with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
803.69	Other open skull fracture with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
803.7	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
803.70	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
803.71	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
803.72	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
803.73	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.74	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.75	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.76	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
803.79	Other open skull fracture with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM
803.8	Other open skull fracture with other and unspecified intracranial hemorrhage	ICD-9-CM
803.80	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
803.81	Other open skull fracture with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM
803.82	Other open skull fracture with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
803.83	Other open skull fracture with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.84	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.85	Other open skull fracture with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.86	Other open skull fracture with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
803.89	Other open skull fracture with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
803.9	Other open skull fracture with intracranial injury of other and unspecified nature	ICD-9-CM
803.90	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
803.91	Other open skull fracture with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
803.92	Other open skull fracture with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
803.93	Other open skull fracture with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
803.94	Other open skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
803.95	Other open skull fracture with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
803.96	Other open skull fracture with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
803.99	Other open skull fracture with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM
804.0	Closed fractures involving skull or face with other bones, without mention of intracranial injury	ICD-9-CM
804.00	Closed fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
804	Multiple fractures involving skull or face with other bones	ICD-9-CM
804.01	Closed fractures involving skull or face with other bones, without mention of intracranial injury, no loss of consciousness	ICD-9-CM
804.02	Closed fractures involving skull or face with other bones, without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
804.03	Closed fractures involving skull or face with other bones, without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.04	Closed fractures involving skull or face with other bones, without mention or intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.05	Closed fractures involving skull of face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.06	Closed fractures involving skull of face with other bones, without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
804.09	Closed fractures involving skull of face with other bones, without mention of intracranial injury, unspecified concussion	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
804.1	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion	ICD-9-CM
804.10	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
804.11	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
804.12	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
804.13	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.14	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.15	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.16	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
804.19	Closed fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
804.2	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
804.20	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
804.21	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
804.22	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
804.23	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.24	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.25	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.26	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
804.29	Closed fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM
804.3	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage	ICD-9-CM
804.30	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
804.31	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, no loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
804.32	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
804.33	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.34	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	ICD-9-CM
804.35	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.36	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
804.39	Closed fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
804.4	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature	ICD-9-CM
804.40	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
804.41	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
804.42	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
804.43	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.44	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.45	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.46	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
804.49	Closed fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM
804.5	Open fractures involving skull or face with other bones, without mention of intracranial injury	ICD-9-CM
804.50	Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified state of consciousness	ICD-9-CM
804.51	Open fractures involving skull or face with other bones, without mention of intracranial injury, no loss of consciousness	ICD-9-CM
804.52	Open fractures involving skull or face with other bones, without mention of intracranial injury, brief (less than one hour) loss of consciousness	ICD-9-CM
804.53	Open fractures involving skull or face with other bones, without mention of intracranial injury, moderate (1-24 hours) loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
804.54	Open fractures involving skull or face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.55	Open fractures involving skull or face with other bones, without mention of intracranial injury, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.56	Open fractures involving skull or face with other bones, without mention of intracranial injury, loss of consciousness of unspecified duration	ICD-9-CM
804.59	Open fractures involving skull or face with other bones, without mention of intracranial injury, unspecified concussion	ICD-9-CM
804.6	Open fractures involving skull or face with other bones, with cerebral laceration and contusion	ICD-9-CM
804.60	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified state of consciousness	ICD-9-CM
804.61	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, no loss of consciousness	ICD-9-CM
804.62	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, brief (less than one hour) loss of consciousness	ICD-9-CM
804.63	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.64	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.65	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.66	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, loss of consciousness of unspecified duration	ICD-9-CM
804.69	Open fractures involving skull or face with other bones, with cerebral laceration and contusion, unspecified concussion	ICD-9-CM
804.7	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage	ICD-9-CM
804.70	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified state of consciousness	ICD-9-CM
804.71	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, no loss of consciousness	ICD-9-CM
804.72	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
804.73	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.74	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.75	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.76	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, loss of consciousness of unspecified duration	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
804.79	Open fractures involving skull or face with other bones with subarachnoid, subdural, and extradural hemorrhage, unspecified concussion	ICD-9-CM
804.8	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage	ICD-9-CM
804.80	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified state of consciousness	ICD-9-CM
804.81	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, no loss of consciousness	ICD-9-CM
804.82	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, brief (less than one hour) loss of consciousness	ICD-9-CM
804.83	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.84	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.85	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
804.86	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, loss of consciousness of unspecified duration	ICD-9-CM
804.89	Open fractures involving skull or face with other bones, with other and unspecified intracranial hemorrhage, unspecified concussion	ICD-9-CM
804.9	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature	ICD-9-CM
804.90	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified state of consciousness	ICD-9-CM
804.91	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, no loss of consciousness	ICD-9-CM
804.92	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, brief (less than one hour) loss of consciousness	ICD-9-CM
804.93	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, moderate (1-24 hours) loss of consciousness	ICD-9-CM
804.94	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
804.95	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing level	ICD-9-CM
804.96	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, loss of consciousness of unspecified duration	ICD-9-CM
804.99	Open fractures involving skull or face with other bones, with intracranial injury of other and unspecified nature, unspecified concussion	ICD-9-CM
850	Concussion	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
850.0	Concussion with no loss of consciousness	ICD-9-CM
850.1	Concussion with brief (less than one hour) loss of consciousness	ICD-9-CM
850.11	Concussion, with loss of consciousness of 30 minutes or less	ICD-9-CM
850.12	Concussion, with loss of consciousness 31 to 59 minutes	ICD-9-CM
850.2	Concussion with moderate (1-24 hours) loss of consciousness	ICD-9-CM
850.3	Concussion with prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
850.4	Concussion with prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
850.5	Concussion with loss of consciousness of unspecified duration	ICD-9-CM
850.9	Unspecified concussion	ICD-9-CM
851	Cerebral laceration and contusion	ICD-9-CM
851.0	Cortex (cerebral) contusion without mention of open intracranial wound	ICD-9-CM
851.00	Cortex (cerebral) contusion without mention of open intracranial wound, state of consciousness unspecified	ICD-9-CM
851.01	Cortex (cerebral) contusion without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
851.02	Cortex (cerebral) contusion without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.03	Cortex (cerebral) contusion without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.04	Cortex (cerebral) contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.05	Cortex (cerebral) contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.06	Cortex (cerebral) contusion without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.09	Cortex (cerebral) contusion without mention of open intracranial wound, unspecified concussion	ICD-9-CM
851.1	Cortex (cerebral) contusion with open intracranial wound	ICD-9-CM
851.10	Cortex (cerebral) contusion with open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.11	Cortex (cerebral) contusion with open intracranial wound, no loss of consciousness	ICD-9-CM
851.12	Cortex (cerebral) contusion with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.13	Cortex (cerebral) contusion with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.14	Cortex (cerebral) contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.15	Cortex (cerebral) contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.16	Cortex (cerebral) contusion with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.19	Cortex (cerebral) contusion with open intracranial wound, unspecified concussion	ICD-9-CM
851.2	Cortex (cerebral) laceration without mention of open intracranial wound	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
851.20	Cortex (cerebral) laceration without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.21	Cortex (cerebral) laceration without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
851.22	Cortex (cerebral) laceration without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.23	Cortex (cerebral) laceration without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.24	Cortex (cerebral) laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.25	Cortex (cerebral) laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.26	Cortex (cerebral) laceration without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.29	Cortex (cerebral) laceration without mention of open intracranial wound, unspecified concussion	ICD-9-CM
851.3	Cortex (cerebral) laceration with open intracranial wound	ICD-9-CM
851.30	Cortex (cerebral) laceration with open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.31	Cortex (cerebral) laceration with open intracranial wound, no loss of consciousness	ICD-9-CM
851.32	Cortex (cerebral) laceration with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.33	Cortex (cerebral) laceration with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.34	Cortex (cerebral) laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.35	Cortex (cerebral) laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.36	Cortex (cerebral) laceration with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.39	Cortex (cerebral) laceration with open intracranial wound, unspecified concussion	ICD-9-CM
851.4	Cerebellar or brain stem contusion without mention of open intracranial wound	ICD-9-CM
851.40	Cerebellar or brain stem contusion without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.41	Cerebellar or brain stem contusion without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
851.42	Cerebellar or brain stem contusion without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.43	Cerebellar or brain stem contusion without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.44	Cerebellar or brain stem contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss consciousness and return to pre-existing conscious level	ICD-9-CM
851.45	Cerebellar or brain stem contusion without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.46	Cerebellar or brain stem contusion without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.49	Cerebellar or brain stem contusion without mention of open intracranial wound, unspecified concussion	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
851.5	Cerebellar or brain stem contusion with open intracranial wound	ICD-9-CM
851.50	Cerebellar or brain stem contusion with open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.51	Cerebellar or brain stem contusion with open intracranial wound, no loss of consciousness	ICD-9-CM
851.52	Cerebellar or brain stem contusion with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.53	Cerebellar or brain stem contusion with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.54	Cerebellar or brain stem contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.55	Cerebellar or brain stem contusion with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.56	Cerebellar or brain stem contusion with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.59	Cerebellar or brain stem contusion with open intracranial wound, unspecified concussion	ICD-9-CM
851.6	Cerebellar or brain stem laceration without mention of open intracranial wound	ICD-9-CM
851.60	Cerebellar or brain stem laceration without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.61	Cerebellar or brain stem laceration without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
851.62	Cerebellar or brain stem laceration without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.63	Cerebellar or brain stem laceration without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.64	Cerebellar or brain stem laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.65	Cerebellar or brain stem laceration without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.66	Cerebellar or brain stem laceration without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.69	Cerebellar or brain stem laceration without mention of open intracranial wound, unspecified concussion	ICD-9-CM
851.7	Cerebellar or brain stem laceration with open intracranial wound	ICD-9-CM
851.70	Cerebellar or brain stem laceration with open intracranial wound, state of consciousness unspecified	ICD-9-CM
851.71	Cerebellar or brain stem laceration with open intracranial wound, no loss of consciousness	ICD-9-CM
851.72	Cerebellar or brain stem laceration with open intracranial wound, brief (less than one hour) loss of consciousness	ICD-9-CM
851.73	Cerebellar or brain stem laceration with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.74	Cerebellar or brain stem laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.75	Cerebellar or brain stem laceration with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
851.76	Cerebellar or brain stem laceration with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.79	Cerebellar or brain stem laceration with open intracranial wound, unspecified concussion	ICD-9-CM
851.8	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound	ICD-9-CM
851.80	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.81	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
851.82	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.83	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.84	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	ICD-9-CM
851.85	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.86	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.89	Other and unspecified cerebral laceration and contusion, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
851.9	Other and unspecified cerebral laceration and contusion, with open intracranial wound	ICD-9-CM
851.90	Other and unspecified cerebral laceration and contusion, with open intracranial wound, unspecified state of consciousness	ICD-9-CM
851.91	Other and unspecified cerebral laceration and contusion, with open intracranial wound, no loss of consciousness	ICD-9-CM
851.92	Other and unspecified cerebral laceration and contusion, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
851.93	Other and unspecified cerebral laceration and contusion, with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
851.94	Other and unspecified cerebral laceration and contusion, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
851.95	Other and unspecified cerebral laceration and contusion, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
851.96	Other and unspecified cerebral laceration and contusion, with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
851.99	Other and unspecified cerebral laceration and contusion, with open intracranial wound, unspecified	ICD-9-CM
852.0	Subarachnoid hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.00	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852	Subarachnoid, subdural, and extradural hemorrhage, following injury	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
852.01	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
852.02	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.03	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.04	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.05	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.06	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.09	Subarachnoid hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
852.1	Subarachnoid hemorrhage following injury, with open intracranial wound	ICD-9-CM
852.10	Subarachnoid hemorrhage following injury, with open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.11	Subarachnoid hemorrhage following injury, with open intracranial wound, no loss of consciousness	ICD-9-CM
852.12	Subarachnoid hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.13	Subarachnoid hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.14	Subarachnoid hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.15	Subarachnoid hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.16	Subarachnoid hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.19	Subarachnoid hemorrhage following injury, with open intracranial wound, unspecified concussion	ICD-9-CM
852.2	Subdural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.20	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.21	Subdural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
852.22	Subdural hemorrhage following injury, without mention of open intracranial wound, brief (less than one hour) loss of consciousness	ICD-9-CM
852.23	Subdural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.24	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.25	Subdural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
852.26	Subdural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.29	Subdural hemorrhage following injury, without mention of open intracranial wound, unspecified	ICD-9-CM
852.3	Subdural hemorrhage following injury, with open intracranial wound	ICD-9-CM
852.30	Subdural hemorrhage following injury, with open intracranial wound, state of consciousness unspecified	ICD-9-CM
852.31	Subdural hemorrhage following injury, with open intracranial wound, no loss of consciousness	ICD-9-CM
852.32	Subdural hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.33	Subdural hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.34	Subdural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.35	Subdural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.36	Subdural hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.39	Subdural hemorrhage following injury, with open intracranial wound, unspecified concussion	ICD-9-CM
852.4	Extradural hemorrhage following injury without mention of open intracranial wound	ICD-9-CM
852.40	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
852.41	Extradural hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
852.42	Extradural hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.43	Extradural hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
852.44	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.45	Extradural hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.46	Extradural hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.49	Extradural hemorrhage following injury, without mention of open intracranial wound, unspecified	ICD-9-CM
852.5	Extradural hemorrhage following injury with open intracranial wound	ICD-9-CM
852.50	Extradural hemorrhage following injury, with open intracranial wound, state of consciousness unspecified	ICD-9-CM
852.51	Extradural hemorrhage following injury, with open intracranial wound, no loss of consciousness	ICD-9-CM
852.52	Extradural hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
852.53	Extradural hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
852.54	Extradural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
852.55	Extradural hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
852.56	Extradural hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
852.59	Extradural hemorrhage following injury, with open intracranial wound, unspecified concussion	ICD-9-CM
853	Other and unspecified intracranial hemorrhage following injury	ICD-9-CM
853.0	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound	ICD-9-CM
853.00	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
853.01	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
853.02	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
853.03	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
853.04	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to preexisting conscious level	ICD-9-CM
853.05	Other and unspecified intracranial hemorrhage following injury. Without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
853.06	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
853.09	Other and unspecified intracranial hemorrhage following injury, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
853.1	Other and unspecified intracranial hemorrhage following injury with open intracranial wound	ICD-9-CM
853.10	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, unspecified state of consciousness	ICD-9-CM
853.11	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, no loss of consciousness	ICD-9-CM
853.12	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
853.13	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
853.14	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
853.15	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
853.16	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, loss of consciousness of unspecified duration	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
853.19	Other and unspecified intracranial hemorrhage following injury, with open intracranial wound, unspecified concussion	ICD-9-CM
854	Intracranial injury of other and unspecified nature	ICD-9-CM
854.0	Intracranial injury of other and unspecified nature without mention of open intracranial wound	ICD-9-CM
854.00	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, unspecified state of consciousness	ICD-9-CM
854.01	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, no loss of consciousness	ICD-9-CM
854.02	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
854.03	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
854.04	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
854.05	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
854.06	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
854.09	Intracranial injury of other and unspecified nature, without mention of open intracranial wound, unspecified concussion	ICD-9-CM
854.1	Intracranial injury of other and unspecified nature with open intracranial wound	ICD-9-CM
854.10	Intracranial injury of other and unspecified nature, with open intracranial wound, unspecified state of consciousness	ICD-9-CM
854.11	Intracranial injury of other and unspecified nature, with open intracranial wound, no loss of consciousness	ICD-9-CM
854.12	Intracranial injury of other and unspecified nature, with open intracranial wound, brief (less than 1 hour) loss of consciousness	ICD-9-CM
854.13	Intracranial injury of other and unspecified nature, with open intracranial wound, moderate (1-24 hours) loss of consciousness	ICD-9-CM
854.14	Intracranial injury of other and unspecified nature, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness and return to pre-existing conscious level	ICD-9-CM
854.15	Intracranial injury of other and unspecified nature, with open intracranial wound, prolonged (more than 24 hours) loss of consciousness, without return to pre-existing conscious level	ICD-9-CM
854.16	Intracranial injury of other and unspecified nature, with open intracranial wound, loss of consciousness of unspecified duration	ICD-9-CM
854.19	Intracranial injury of other and unspecified nature, with open intracranial wound, with unspecified concussion	ICD-9-CM
S01.90XA	Unspecified open wound of unspecified part of head, initial encounter	ICD-10-CM
S02.0XXA	Fracture of vault of skull, initial encounter for closed fracture	ICD-10-CM
S02.0XXB	Fracture of vault of skull, initial encounter for open fracture	ICD-10-CM
S02.101A	Fracture of base of skull, right side, initial encounter for closed fracture	ICD-10-CM
S02.101B	Fracture of base of skull, right side, initial encounter for open fracture	ICD-10-CM
S02.102A	Fracture of base of skull, left side, initial encounter for closed fracture	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S02.102B	Fracture of base of skull, left side, initial encounter for open fracture	ICD-10-CM
S02.109A	Fracture of base of skull, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.109B	Fracture of base of skull, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.10XA	Unspecified fracture of base of skull, initial encounter for closed fracture	ICD-10-CM
S02.10XB	Unspecified fracture of base of skull, initial encounter for open fracture	ICD-10-CM
S02.110A	Type I occipital condyle fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.110B	Type I occipital condyle fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.111A	Type II occipital condyle fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.111B	Type II occipital condyle fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.112A	Type III occipital condyle fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.112B	Type III occipital condyle fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.113A	Unspecified occipital condyle fracture, initial encounter for closed fracture	ICD-10-CM
S02.113B	Unspecified occipital condyle fracture, initial encounter for open fracture	ICD-10-CM
S02.118A	Other fracture of occiput, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.118B	Other fracture of occiput, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.119A	Unspecified fracture of occiput, initial encounter for closed fracture	ICD-10-CM
S02.119B	Unspecified fracture of occiput, initial encounter for open fracture	ICD-10-CM
S02.11GA	Other fracture of occiput, right side, initial encounter for closed fracture	ICD-10-CM
S02.11GB	Other fracture of occiput, right side, initial encounter for open fracture	ICD-10-CM
S02.11HA	Other fracture of occiput, left side, initial encounter for closed fracture	ICD-10-CM
S02.11HB	Other fracture of occiput, left side, initial encounter for open fracture	ICD-10-CM
S02.19XA	Other fracture of base of skull, initial encounter for closed fracture	ICD-10-CM
S02.19XB	Other fracture of base of skull, initial encounter for open fracture	ICD-10-CM
S02.2XXA	Fracture of nasal bones, initial encounter for closed fracture	ICD-10-CM
S02.2XXB	Fracture of nasal bones, initial encounter for open fracture	ICD-10-CM
S02.30XA	Fracture of orbital floor, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.30XB	Fracture of orbital floor, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.31XA	Fracture of orbital floor, right side, initial encounter for closed fracture	ICD-10-CM
S02.31XB	Fracture of orbital floor, right side, initial encounter for open fracture	ICD-10-CM
S02.32XA	Fracture of orbital floor, left side, initial encounter for closed fracture	ICD-10-CM
S02.32XB	Fracture of orbital floor, left side, initial encounter for open fracture	ICD-10-CM
S02.3XXA	Fracture of orbital floor, initial encounter for closed fracture	ICD-10-CM
S02.3XXB	Fracture of orbital floor, initial encounter for open fracture	ICD-10-CM
S02.400A	Malar fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.400B	Malar fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.401A	Maxillary fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.401B	Maxillary fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.402A	Zygomatic fracture, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.402B	Zygomatic fracture, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.40AA	Malar fracture, right side, initial encounter for closed fracture	ICD-10-CM
S02.40AB	Malar fracture, right side, initial encounter for open fracture	ICD-10-CM
S02.40BA	Malar fracture, left side, initial encounter for closed fracture	ICD-10-CM
S02.40BB	Malar fracture, left side, initial encounter for open fracture	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S02.40CA	Maxillary fracture, right side, initial encounter for closed fracture	ICD-10-CM
S02.40CB	Maxillary fracture, right side, initial encounter for open fracture	ICD-10-CM
S02.40DA	Maxillary fracture, left side, initial encounter for closed fracture	ICD-10-CM
S02.40DB	Maxillary fracture, left side, initial encounter for open fracture	ICD-10-CM
S02.40EA	Zygomatic fracture, right side, initial encounter for closed fracture	ICD-10-CM
S02.40EB	Zygomatic fracture, right side, initial encounter for open fracture	ICD-10-CM
S02.40FA	Zygomatic fracture, left side, initial encounter for closed fracture	ICD-10-CM
S02.40FB	Zygomatic fracture, left side, initial encounter for open fracture	ICD-10-CM
S02.411A	LeFort I fracture, initial encounter for closed fracture	ICD-10-CM
S02.411B	LeFort I fracture, initial encounter for open fracture	ICD-10-CM
S02.412A	LeFort II fracture, initial encounter for closed fracture	ICD-10-CM
S02.412B	LeFort II fracture, initial encounter for open fracture	ICD-10-CM
S02.413A	LeFort III fracture, initial encounter for closed fracture	ICD-10-CM
S02.413B	LeFort III fracture, initial encounter for open fracture	ICD-10-CM
S02.42XA	Fracture of alveolus of maxilla, initial encounter for closed fracture	ICD-10-CM
S02.42XB	Fracture of alveolus of maxilla, initial encounter for open fracture	ICD-10-CM
S02.600A	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.600B	Fracture of unspecified part of body of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.601A	Fracture of unspecified part of body of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.601B	Fracture of unspecified part of body of right mandible, initial encounter for open fracture	ICD-10-CM
S02.602A	Fracture of unspecified part of body of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.602B	Fracture of unspecified part of body of left mandible, initial encounter for open fracture	ICD-10-CM
S02.609A	Fracture of mandible, unspecified, initial encounter for closed fracture	ICD-10-CM
S02.609B	Fracture of mandible, unspecified, initial encounter for open fracture	ICD-10-CM
S02.610A	Fracture of condylar process of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.610B	Fracture of condylar process of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.611A	Fracture of condylar process of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.611B	Fracture of condylar process of right mandible, initial encounter for open fracture	ICD-10-CM
S02.612A	Fracture of condylar process of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.612B	Fracture of condylar process of left mandible, initial encounter for open fracture	ICD-10-CM
S02.61XA	Fracture of condylar process of mandible, initial encounter for closed fracture	ICD-10-CM
S02.61XB	Fracture of condylar process of mandible, initial encounter for open fracture	ICD-10-CM
S02.620A	Fracture of subcondylar process of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.620B	Fracture of subcondylar process of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.621A	Fracture of subcondylar process of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.621B	Fracture of subcondylar process of right mandible, initial encounter for open fracture	ICD-10-CM
S02.622A	Fracture of subcondylar process of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.622B	Fracture of subcondylar process of left mandible, initial encounter for open fracture	ICD-10-CM
S02.62XA	Fracture of subcondylar process of mandible, initial encounter for closed fracture	ICD-10-CM
S02.62XB	Fracture of subcondylar process of mandible, initial encounter for open fracture	ICD-10-CM
S02.630A	Fracture of coronoid process of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.630B	Fracture of coronoid process of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.631A	Fracture of coronoid process of right mandible, initial encounter for closed fracture	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S02.631B	Fracture of coronoid process of right mandible, initial encounter for open fracture	ICD-10-CM
S02.632A	Fracture of coronoid process of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.632B	Fracture of coronoid process of left mandible, initial encounter for open fracture	ICD-10-CM
S02.63XA	Fracture of coronoid process of mandible, initial encounter for closed fracture	ICD-10-CM
S02.63XB	Fracture of coronoid process of mandible, initial encounter for open fracture	ICD-10-CM
S02.640A	Fracture of ramus of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.640B	Fracture of ramus of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.641A	Fracture of ramus of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.641B	Fracture of ramus of right mandible, initial encounter for open fracture	ICD-10-CM
S02.642A	Fracture of ramus of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.642B	Fracture of ramus of left mandible, initial encounter for open fracture	ICD-10-CM
S02.64XA	Fracture of ramus of mandible, initial encounter for closed fracture	ICD-10-CM
S02.64XB	Fracture of ramus of mandible, initial encounter for open fracture	ICD-10-CM
S02.650A	Fracture of angle of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.650B	Fracture of angle of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.651A	Fracture of angle of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.651B	Fracture of angle of right mandible, initial encounter for open fracture	ICD-10-CM
S02.652A	Fracture of angle of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.652B	Fracture of angle of left mandible, initial encounter for open fracture	ICD-10-CM
S02.65XA	Fracture of angle of mandible, initial encounter for closed fracture	ICD-10-CM
S02.65XB	Fracture of angle of mandible, initial encounter for open fracture	ICD-10-CM
S02.66XA	Fracture of symphysis of mandible, initial encounter for closed fracture	ICD-10-CM
S02.66XB	Fracture of symphysis of mandible, initial encounter for open fracture	ICD-10-CM
S02.670A	Fracture of alveolus of mandible, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.670B	Fracture of alveolus of mandible, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.671A	Fracture of alveolus of right mandible, initial encounter for closed fracture	ICD-10-CM
S02.671B	Fracture of alveolus of right mandible, initial encounter for open fracture	ICD-10-CM
S02.672A	Fracture of alveolus of left mandible, initial encounter for closed fracture	ICD-10-CM
S02.672B	Fracture of alveolus of left mandible, initial encounter for open fracture	ICD-10-CM
S02.67XA	Fracture of alveolus of mandible, initial encounter for closed fracture	ICD-10-CM
S02.67XB	Fracture of alveolus of mandible, initial encounter for open fracture	ICD-10-CM
S02.69XA	Fracture of mandible of other specified site, initial encounter for closed fracture	ICD-10-CM
S02.69XB	Fracture of mandible of other specified site, initial encounter for open fracture	ICD-10-CM
S02.80XA	Fracture of other specified skull and facial bones, unspecified side, initial encounter for closed fracture	ICD-10-CM
S02.80XB	Fracture of other specified skull and facial bones, unspecified side, initial encounter for open fracture	ICD-10-CM
S02.81XA	Fracture of other specified skull and facial bones, right side, initial encounter for closed fracture	ICD-10-CM
S02.81XB	Fracture of other specified skull and facial bones, right side, initial encounter for open fracture	ICD-10-CM
S02.82XA	Fracture of other specified skull and facial bones, left side, initial encounter for closed fracture	ICD-10-CM
S02.82XB	Fracture of other specified skull and facial bones, left side, initial encounter for open fracture	ICD-10-CM
S02.8XXA	Fractures of other specified skull and facial bones, initial encounter for closed fracture	ICD-10-CM
S02.8XXB	Fractures of other specified skull and facial bones, initial encounter for open fracture	ICD-10-CM
S02.91XA	Unspecified fracture of skull, initial encounter for closed fracture	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S02.91XB	Unspecified fracture of skull, initial encounter for open fracture	ICD-10-CM
S02.92XA	Unspecified fracture of facial bones, initial encounter for closed fracture	ICD-10-CM
S02.92XB	Unspecified fracture of facial bones, initial encounter for open fracture	ICD-10-CM
S06.0X0A	Concussion without loss of consciousness, initial encounter	ICD-10-CM
S06.0X1A	Concussion with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.0X2A	Concussion with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.0X3A	Concussion with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.0X4A	Concussion with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.0X5A	Concussion with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.0X6A	Concussion with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.0X7A	Concussion with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.0X8A	Concussion with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.0X9A	Concussion with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.1X0A	Traumatic cerebral edema without loss of consciousness, initial encounter	ICD-10-CM
S06.1X1A	Traumatic cerebral edema with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.1X2A	Traumatic cerebral edema with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.1X3A	Traumatic cerebral edema with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.1X4A	Traumatic cerebral edema with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.1X5A	Traumatic cerebral edema with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.1X6A	Traumatic cerebral edema with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.1X7A	Traumatic cerebral edema with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.1X8A	Traumatic cerebral edema with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.1X9A	Traumatic cerebral edema with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.2X0A	Diffuse traumatic brain injury without loss of consciousness, initial encounter	ICD-10-CM
S06.2X1A	Diffuse traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.2X2A	Diffuse traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.2X3A	Diffuse traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.2X4A	Diffuse traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.2X5A	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious levels, initial encounter	ICD-10-CM
S06.2X6A	Diffuse traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.2X7A	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.2X8A	Diffuse traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.2X9A	Diffuse traumatic brain injury with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.300A	Unspecified focal traumatic brain injury without loss of consciousness, initial encounter	ICD-10-CM
S06.301A	Unspecified focal traumatic brain injury with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.302A	Unspecified focal traumatic brain injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.303A	Unspecified focal traumatic brain injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.304A	Unspecified focal traumatic brain injury with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.305A	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.306A	Unspecified focal traumatic brain injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.307A	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.308A	Unspecified focal traumatic brain injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.309A	Unspecified focal traumatic brain injury with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.310A	Contusion and laceration of right cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.311A	Contusion and laceration of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.312A	Contusion and laceration of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.313A	Contusion and laceration of right cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.314A	Contusion and laceration of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.315A	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.316A	Contusion and laceration of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.317A	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.318A	Contusion and laceration of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.319A	Contusion and laceration of right cerebrum with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.320A	Contusion and laceration of left cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.321A	Contusion and laceration of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.322A	Contusion and laceration of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.323A	Contusion and laceration of left cerebrum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.324A	Contusion and laceration of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial	ICD-10-CM
S06.325A	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.326A	Contusion and laceration of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.327A	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.328A	Contusion and laceration of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.329A	Contusion and laceration of left cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CM
S06.330A	Contusion and laceration of cerebrum, unspecified, without loss of consciousness, initial encounter	ICD-10-CM
S06.331A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.332A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.333A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.334A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.335A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.336A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.337A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.338A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.339A	Contusion and laceration of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.340A	Traumatic hemorrhage of right cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.341A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.342A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.343A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.344A	Traumatic hemorrhage of right cerebrum with loss of consciousness of 6 hours to 24 hours, initial	ICD-10-CM
S06.345A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.346A	Traumatic hemorrhage of right cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.347A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.348A	Traumatic hemorrhage of right cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.349A	Traumatic hemorrhage of right cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CM
S06.350A	Traumatic hemorrhage of left cerebrum without loss of consciousness, initial encounter	ICD-10-CM
S06.351A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.352A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.353A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.354A	Traumatic hemorrhage of left cerebrum with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.355A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.356A	Traumatic hemorrhage of left cerebrum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.357A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.358A	Traumatic hemorrhage of left cerebrum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.359A	Traumatic hemorrhage of left cerebrum with loss of consciousness of unspecified duration, initial	ICD-10-CM
S06.360A	Traumatic hemorrhage of cerebrum, unspecified, without loss of consciousness, initial encounter	ICD-10-CM
S06.361A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.362A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.363A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 1 hours to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.364A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.365A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.366A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.367A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.368A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.369A	Traumatic hemorrhage of cerebrum, unspecified, with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.370A	Contusion, laceration, and hemorrhage of cerebellum without loss of consciousness, initial encounter	ICD-10-CM
S06.371A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 30 minutes or less, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.372A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.373A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.374A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.375A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.376A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.377A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.378A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.379A	Contusion, laceration, and hemorrhage of cerebellum with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.380A	Contusion, laceration, and hemorrhage of brainstem without loss of consciousness, initial encounter	ICD-10-CM
S06.381A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.382A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.383A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.384A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.385A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.386A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.387A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.388A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.389A	Contusion, laceration, and hemorrhage of brainstem with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.4X0A	Epidural hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
S06.4X1A	Epidural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.4X2A	Epidural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.4X3A	Epidural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.4X4A	Epidural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.4X5A	Epidural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.4X6A	Epidural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.4X7A	Epidural hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.4X8A	Epidural hemorrhage with loss of consciousness of any duration with death due to other causes prior to regaining consciousness, initial encounter	ICD-10-CM
S06.4X9A	Epidural hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.5X0A	Traumatic subdural hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
S06.5X1A	Traumatic subdural hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.5X2A	Traumatic subdural hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.5X3A	Traumatic subdural hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	ICD-10-CM
S06.5X4A	Traumatic subdural hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.5X5A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.5X6A	Traumatic subdural hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.5X7A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to brain injury before regaining consciousness, initial encounter	ICD-10-CM
S06.5X8A	Traumatic subdural hemorrhage with loss of consciousness of any duration with death due to other cause before regaining consciousness, initial encounter	ICD-10-CM
S06.5X9A	Traumatic subdural hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.6X0A	Traumatic subarachnoid hemorrhage without loss of consciousness, initial encounter	ICD-10-CM
S06.6X1A	Traumatic subarachnoid hemorrhage with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.6X2A	Traumatic subarachnoid hemorrhage with loss of consciousness of 31 minutes to 59 minutes, initial	ICD-10-CM
S06.6X3A	Traumatic subarachnoid hemorrhage with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.6X4A	Traumatic subarachnoid hemorrhage with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.6X5A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.6X6A	Traumatic subarachnoid hemorrhage with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.6X7A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.6X8A	Traumatic subarachnoid hemorrhage with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.6X9A	Traumatic subarachnoid hemorrhage with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.810A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	ICD-10-CM
S06.811A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.812A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.813A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.814A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.815A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.816A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.817A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.818A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.819A	Injury of right internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.820A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified without loss of consciousness, initial encounter	ICD-10-CM
S06.821A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.822A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.823A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.824A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.825A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.826A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.827A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.828A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.829A	Injury of left internal carotid artery, intracranial portion, not elsewhere classified with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.890A	Other specified intracranial injury without loss of consciousness, initial encounter	ICD-10-CM
S06.891A	Other specified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	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) Diagnosis Codes Used to Define Exclusions in this Request**

<b>Code</b>	<b>Description</b>	<b>Code Type</b>
S06.892A	Other specified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.893A	Other specified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial	ICD-10-CM
S06.894A	Other specified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.895A	Other specified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.896A	Other specified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.897A	Other specified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.898A	Other specified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.899A	Other specified intracranial injury with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM
S06.9X0A	Unspecified intracranial injury without loss of consciousness, initial encounter	ICD-10-CM
S06.9X1A	Unspecified intracranial injury with loss of consciousness of 30 minutes or less, initial encounter	ICD-10-CM
S06.9X2A	Unspecified intracranial injury with loss of consciousness of 31 minutes to 59 minutes, initial encounter	ICD-10-CM
S06.9X3A	Unspecified intracranial injury with loss of consciousness of 1 hour to 5 hours 59 minutes, initial encounter	ICD-10-CM
S06.9X4A	Unspecified intracranial injury with loss of consciousness of 6 hours to 24 hours, initial encounter	ICD-10-CM
S06.9X5A	Unspecified intracranial injury with loss of consciousness greater than 24 hours with return to pre-existing conscious level, initial encounter	ICD-10-CM
S06.9X6A	Unspecified intracranial injury with loss of consciousness greater than 24 hours without return to pre-existing conscious level with patient surviving, initial encounter	ICD-10-CM
S06.9X7A	Unspecified intracranial injury with loss of consciousness of any duration with death due to brain injury prior to regaining consciousness, initial encounter	ICD-10-CM
S06.9X8A	Unspecified intracranial injury with loss of consciousness of any duration with death due to other cause prior to regaining consciousness, initial encounter	ICD-10-CM
S06.9X9A	Unspecified intracranial injury with loss of consciousness of unspecified duration, initial encounter	ICD-10-CM

**List 2: Stroke**

V57	Care involving use of rehabilitation procedures	ICD-9-CM
V57.0	Care involving breathing exercises	ICD-9-CM
V57.1	Other physical therapy	ICD-9-CM
V57.2	Occupational therapy and vocational rehabilitation	ICD-9-CM
V57.21	Encounter for occupational therapy	ICD-9-CM
V57.22	Encounter for vocational therapy	ICD-9-CM
V57.3	Care involving use of rehabilitation speech-language therapy	ICD-9-CM
V57.4	Orthoptic training	ICD-9-CM
V57.8	Other specified rehabilitation procedure	ICD-9-CM
V57.81	Orthotic training	ICD-9-CM
V57.89	Other specified rehabilitation procedure	ICD-9-CM
V57.9	Unspecified rehabilitation procedure	ICD-9-CM
Z51.89	Encounter for other specified aftercare	ICD-10-CM

### Appendix D. Specifications Defining Parameters Used in this Request

This request used the Cohort Identification and Descriptive Analysis (CIDA) module, version 5.4.3 with additional ad hoc programming to assess the length of observation (follow-up) time for chronic conditions in the Sentinel Distributed Database (SDD) defined using the Centers for Medicare and Medicaid Services' (CMS) Chronic Conditions Data Warehouse (CCW) condition algorithms<sup>1</sup>.

**Query Period:** January 1, 2008 to June 30, 2018  
**Coverage Requirement:** Medical and Drug Coverage  
**Enrollment Requirement:** Matches washout parameter  
**Enrollment Gap:** 45 days  
**Age Groups:** <19, 19-64, 65+ years

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
1	Acquired Hypothyroidism	IP, IS	1	N/A	0	01	Disenrollment, Data Partner (DP) End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
2	Acquired Hypothyroidism	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
3	Acute Myocardial Infarction	IPP, IPS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
4	Acute Myocardial Infarction	IPP, IPS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
5	Alzheimer's Disease and Related Disorders	Any	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
6	Alzheimer's Disease and Related Disorders	Any	1	N/A	1,095	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
7	Alzheimer's Disease and Related Disorders	Any	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
8	Anemia	Any	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
9	Anemia	Any	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
10	Asthma	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
11	Asthma	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
12	Atrial Fibrillation	IPP, IPS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
13	Atrial Fibrillation	IPP, IPS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
14	Benign Prostatic Hyperplasia	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	Benign Prostatic Hyperplasia exclusion codes (Appendix C)	Same care setting (EncounterID) as event	Exclude	During event encounter (Encounter ID)
		AV, ED, OA	2	365							
15	Benign Prostatic Hyperplasia	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	Benign Prostatic Hyperplasia exclusion codes (Appendix C)	Same care setting (EncounterID) as event	Exclude	During event encounter (Encounter ID)
		AV, ED, OA	2	365							
16	Chronic Kidney Disease	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	730							
17	Chronic Kidney Disease	IP, IS	1	N/A	730	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	730							

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
18	Chronic Kidney Disease	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
19	Chronic Obstructive Pulmonary Disease and Bronchiectasis	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
20	Chronic Obstructive Pulmonary Disease and Bronchiectasis	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
21	Depression	Any	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
22	Depression	Any	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
23	Diabetes	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	730							
24	Diabetes	IP, IS	1	N/A	730	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	730							
25	Diabetes	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
26	Glaucoma	AV, ED, OA	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
27	Glaucoma	AV, ED, OA	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
28	Heart Failure	IP, AV, ED, OA	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
29	Heart Failure	IP, AV, ED, OA	1	N/A	730	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
30	Heart Failure	IP, AV, ED, OA	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
31	Hyperlipidemia	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
32	Hyperlipidemia	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
33	Hypertension	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
34	Hypertension	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
35	Ischemic Heart Disease	Any	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
36	Ischemic Heart Disease	Any	1	N/A	730	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
37	Ischemic Heart Disease	Any	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
38	Osteoporosis	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
39	Osteoporosis	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
40	Rheumatoid Arthritis/ Osteoarthritis	Any	2	730	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
41	Rheumatoid Arthritis/ Osteoarthritis	Any	2	730	730	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
42	Rheumatoid Arthritis/ Osteoarthritis	Any	2	365	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
43	Stroke/Transient Ischemic Attack	IP	1	N/A	0	01	Disenrollment, DP End Date, Death	List 1: Stroke exclusion codes (Appendix C)	Same care setting (EncounterID) as event	Exclude	During event encounter (Encounter ID)
		AV, ED, OA	2	365				List 2: Stroke exclusion codes (Appendix C)	Same care setting (EncounterID) as event in primary diagnosis position		
								List 1 and List 2: Stroke exclusion codes (Appendix C)	Same care setting (EncounterID) as event		



Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
44	Stroke/Transient Ischemic Attack	IP	1	N/A	365	01	Disenrollment, DP End Date, Death	List 1: Stroke exclusion codes (Appendix C)	Same care setting (EncounterID) as event	Exclude	During event encounter (Encounter ID)
		AV, ED, OA	2	365				List 2: Stroke exclusion codes (Appendix C)	Same care setting (EncounterID) as event in primary diagnosis position		
45	Female/Male Breast Cancer	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
46	Female/Male Breast Cancer	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
47	Colorectal Cancer	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
48	Colorectal Cancer	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
49	Prostate Cancer	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
50	Prostate Cancer	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							

Scenario	Event						Inclusion/Exclusion Criteria				
	Event	Care Setting <sup>2</sup>	CodeDays <sup>3</sup>	Lookback (days)	Washout (days)	Cohort Definition <sup>4</sup>	Censoring Criteria	Pre-Existing Conditions	Care Setting	Include/Exclude	Lookback Period
51	Lung Cancer	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
52	Lung Cancer	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
53	Endometrial Cancer	IP, IS	1	N/A	0	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							
54	Endometrial Cancer	IP, IS	1	N/A	365	01	Disenrollment, DP End Date, Death	N/A	N/A	N/A	N/A
		AV, ED, OA	2	365							

<sup>1</sup>Centers for Medicare and Medicaid Services (CMS). (n.d.). Chronic Conditions Data Warehouse. Retrieved from <https://www.ccwdata.org/web/guest/condition-categories>

<sup>2</sup>Possible care settings include: Any Inpatient Hospital Stay (IP), Inpatient Hospital Stay in the Primary position (IPP), Inpatient Hospital Stay in the Secondary position (IPS), Non-Acute Institutional Stay (IS), Emergency Department (ED), Ambulatory Visit (AV), and Other Ambulatory Visit (OA).

<sup>3</sup>If CodeDays = 1, then only one code from the code list and care setting listed is required to consider a patient diagnosed. If CodeDays = 2, then two diagnostic codes within a pre-specified day period ("Lookback") of each other from the code list and care settings selected are required for a patient to be considered diagnosed with the condition listed.

<sup>4</sup>Cohort definition 01 indicates that no cohort re-entry was permitted; only the first qualifying event was captured for each patient