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

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

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

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Overview for Request cder_mpl1r_wp061

Request ID: cder_mpl1r_wp061

Query Description: The goal of this query was to examine the association between stent implants, intranasal steroids, oral steroids, and sinus surgery and subsequent development of diminished visual acuity, glaucoma, cataracts, or blindness in the Sentinel Distributed Database (SDD).

Sentinel Modular Program Tool Used: Cohort Identification and Descriptive Analysis tool, version 5.0.5

Data Source: Data from August 1, 2011 to May 31, 2017 from 16 Data Partners contributing to the SDD were included in this report. This request was distributed on October 27, 2017. See Appendix A for a list of the dates of available data for each Data Partner.

Study Design: The request was designed to identify exposures and outcomes. The number of qualifying patients with the exposures of interest was calculated overall and stratified by age group, sex, and year.

Exposures of Interest: The exposures of interest were stent implants, intranasal steroids, oral steroids, and sinus surgery. Stent implants were defined using three types of procedure codes: Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Third Edition (CPT-3), and Current Procedural Terminology, Fourth Edition (CPT-4) codes. Intranasal and oral steroids were defined using National Drug Codes (NDCs). Sinus surgery was defined using CPT-4 codes. Please see Appendices B-E for generic names.

Outcomes of Interest: The outcomes of interest were cataract diagnosis or cataract surgery, glaucoma diagnosis or treatment, diminished or decreased visual acuity, and blindness. Cataract diagnosis, glaucoma diagnosis, diminished or decreased visual acuity, and blindness were defined using International Classification of Diseases, 9th and 10th Revisions, Clinical Modification (ICD-9-CM and ICD-10-CM). Cataract surgery was defined using CPT-4 procedure codes. Glaucoma treatment was defined using NDCs. Please see Appendices F and G for specific codes and generic names.

Cohort Eligibility Criteria: Members' first qualifying incident exposures that occurred between August 1, 2011 - May 31, 2017 were included. Separate incidence and truncation criteria were applied to each exposure:

- 1) **Stent Implants:** Members were excluded if they had evidence of a stent implant in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of intranasal steroid use, oral steroid use, or sinus surgery after the index date.
 - a) Sensitivity analysis for patients with a history of steroid use: Members were excluded if they had evidence of a stent implant in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of sinus surgery after the index date.
 - b) Sensitivity analysis for patients with no history of steroid use: Members were excluded if they had evidence of a stent implant in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of intranasal steroid use, oral steroid use, or sinus surgery after the index date.
- 2) **Intranasal Steroids:** Members were excluded if they had evidence of intranasal steroid use, stent implants, or sinus surgery in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of stent implants, oral steroid use, or sinus surgery after the index date.
- 3) **Oral Steroids:** Members were excluded if they had evidence of oral steroid use, intranasal steroid use, stent implants, or sinus surgery in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of stent implants, intranasal steroid use, or sinus surgery after the index date.
- 4) **Sinus Surgery:** Members were excluded if they had evidence of sinus surgery in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of stent implants, intranasal steroid use, or oral steroid use after the index date.
 - a) Sensitivity analysis for patients with a history of steroid use: Members were excluded if they had evidence of sinus surgery in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of stent implants after the index date.
 - b) Sensitivity analysis for patients with no history of steroid use: Members were excluded if they had evidence of sinus surgery in the 183 days prior to the index date. Treatment episodes were truncated if members showed evidence of stent implants, intranasal steroid use, or oral steroid use after the index date.

Those included in the cohort were required to be continuously enrolled in plans with medical and drug coverage for at least 183 days prior to their index date, during which gaps in coverage of up to 45 days were allowed. The following age groups were included in the cohort: 0-18, 19-24, 25-40, 41-64 and 65+ years. All members were required to have evidence of a nasal polyps diagnosis within 183 days of the index date to be included in the cohort. Members were excluded if they had evidence of the following conditions within 183 days of the index date: trabeculectomy, cataracts, glaucoma, diminished or decreased visual acuity, or blindness. These inclusion and exclusion criteria were defined using ICD-9-CM, ICD-10-CM, HCPCS, CPT-4, and NDCs. Please refer to Appendices H and I for specific codes used to define these inclusion and exclusion criteria.

An exposure episode length of 90 days was applied to stent implant and sinus surgery exposure episodes and a length of seven days was applied to oral steroid exposure episodes. The length of intranasal steroid exposure episodes was determined by the days and amount supplied. If a secondary dispensing occurred within 50% of the days supply of the first dispensing, then the episode was bridged and the two dispensings were considered part of the same episode.

Follow-Up Time: Follow-up began on the day of the first exposure 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 Data Partner (see Appendix A); 3) the end of the exposure episode; or 4) occurrence of outcome.

Baseline Covariates: The following covariates were assessed during the baseline period: age, sex, year, comorbidity score, health service utilization, blepharitis, cardiovascular disease, corneal abrasion, corneal graft, diabetes, diabetic retinopathy, Fuchs' endothelial dystrophy, episcleritis, heterochromic cyclitis, keratitis, macular degeneration, retinitis pigmentosa, subconjunctival hemorrhage, uremia, uveitis or iritis, and vasculitis. Occurrence of these covariates was evaluated in the 183 days prior to the exposures of interest. Diabetic retinopathy was defined as a diabetic retinopathy diagnosis code or evidence of both a diabetes diagnosis and a cystoid macular degeneration diagnosis. Please refer to Appendix J for specific codes used to define covariates.

Limitations: Algorithms to define exposures, outcomes, inclusion and exclusion criteria, and covariates are imperfect and therefore, may be misclassified.

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

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

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

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, 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.

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

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 MP algorithm: 0: Counts all occurrences of an 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 days 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

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.

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

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

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

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

*all terms may not be used in this report

Modular Program Report



Table 1. Aggregated Baseline Table for Members Exposed to Stent Implants, Intranasal Steroids, Oral Steroids, and Sinus Surgery

Characteristic	Stent Implants		Intranasal Steroids		Oral Steroids		Sinus Surgery	
	N/Mean	%/Std Dev ¹	N/Mean	%/Std Dev ¹	N/Mean	%/Std Dev ¹	N/Mean	%/Std Dev ¹
Number of unique patients	1,906	100.0%	52,066	100.0%	41,038	100.0%	66,637	100.0%
Patient Characteristics								
Mean age	47	14.8	46.9	16.2	46.6	15.2	46.2	15.5
Age: 0-18 years	95	5.0%	3,341	6.4%	2,024	4.9%	4,025	6.0%
Age: 19-24 years	89	4.7%	2,622	5.0%	2,121	5.2%	3,634	5.5%
Age: 25-40 years	449	23.6%	12,529	24.1%	10,444	25.4%	16,534	24.8%
Age: 41-64 years	1,094	57.4%	26,369	50.6%	21,878	53.3%	34,892	52.4%
Age: 65+ years	179	9.4%	7,205	13.8%	4,571	11.1%	7,552	11.3%
Gender (Female)	779	40.9%	21,860	42.0%	16,274	39.7%	26,952	40.4%
Gender (Male)	1,127	59.1%	30,201	58.0%	24,763	60.3%	39,680	59.5%
Gender (Unknown)	0	0.0%	5	0.0%	1	0.0%	5	0.0%
Year (2011)	53	2.8%	4,643	8.9%	2,878	7.0%	5,272	7.9%
Year (2012)	137	7.2%	11,181	21.5%	6,442	15.7%	11,881	17.8%
Year (2013)	199	10.4%	11,293	21.7%	6,507	15.9%	12,207	18.3%
Year (2014)	382	20.0%	10,724	20.6%	6,458	15.7%	11,803	17.7%
Year (2015)	524	27.5%	7,281	14.0%	8,000	19.5%	12,010	18.0%
Year (2016)	539	28.3%	6,096	11.7%	9,094	22.2%	11,727	17.6%
Year (2017)	72	3.8%	848	1.6%	1,659	4.0%	1,737	2.6%
Recorded History of:								
Prior combined comorbidity score	0.6	1.2	0.3	1	0.4	1.1	0.4	1.1
Blepharitis	9	0.5%	299	0.6%	215	0.5%	376	0.6%
Cardiovascular disease	599	31.4%	12,994	25.0%	9,724	23.7%	19,805	29.7%
Corneal abrasion	2	0.1%	96	0.2%	82	0.2%	139	0.2%
Corneal graft	0	0.0%	1	0.0%	3	0.0%	3	0.0%
Diabetes	106	5.6%	3,054	5.9%	1,833	4.5%	4,238	6.4%
Diabetic retinopathy	5	0.3%	146	0.3%	83	0.2%	193	0.3%
Dystrophy Fuchs endothelial eye	0	0.0%	32	0.1%	19	0.0%	26	0.0%
Episcleritis	0	0.0%	13	0.0%	14	0.0%	16	0.0%
Heterochromic cyclitis	0	0.0%	0	0.0%	1	0.0%	1	0.0%
Keratitis	3	0.2%	107	0.2%	81	0.2%	161	0.2%
Macular degeneration	4	0.2%	270	0.5%	132	0.3%	217	0.3%
Retinitis pigmentosa	0	0.0%	4	0.0%	3	0.0%	8	0.0%
Subconjunctival hemorrhage	3	0.2%	81	0.2%	62	0.2%	81	0.1%
Uremia	10	0.5%	289	0.6%	225	0.5%	378	0.6%
Uveitis/iritis	1	0.1%	54	0.1%	50	0.1%	74	0.1%
Vasculitis	0	0.0%	1	0.0%	0	0.0%	2	0.0%
Health Service Utilization Intensity:								
Mean number of ambulatory encounters (AV)	12.4	9.7	7.3	7.5	7.3	7.6	10.8	8
Mean number of emergency room encounters (ED)	0.3	1	0.2	0.6	0.2	0.7	0.2	0.7
Mean number of inpatient hospital encounters (IP)	0.1	0.4	0	0.3	0	0.3	0.1	0.3
Mean number of non-acute institutional encounters (IS)	0	0.3	0	0.2	0	0.2	0	0.2
Mean number of other ambulatory encounters (OA)	2.6	6.1	1.5	3.3	1.3	3.2	2.1	4.1
Mean number of filled prescriptions	16	13.4	10.8	10.4	10.2	9.8	14.3	12.2
Mean number of generics	8.4	5	5.9	3.9	5.7	3.6	7.6	4.5
Mean number of unique drug classes	7.6	4.3	5.6	3.6	5.4	3.3	6.9	4

¹Value represents standard deviation where no % follows the value

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Table 2. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Exposed Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Cataract Diagnosis or Cataracts Surgery						
Propel Stent Implant						
<i>Overall</i>	1,906	284,544	6.70	21.3	0	0.00
<i>History of Intranasal or Oral Steroid Use</i>	1,533	207,637	7.38	17.2	1	58.14
<i>No History of Intranasal or Oral Steroid Use</i>	376	156,599	2.40	7.3	0	0.00
<i>Two Propel Stent Implants within 365 Days</i>	49	244,917	0.20	2.4	0	0.00
Intranasal Steroids						
<i>Overall</i>	52,066	203,805	255.47	4,790.7	477	99.57
Oral Steroids						
<i>Overall</i>	41,038	170,381	240.86	600.8	37	61.58
Sinus Surgery						
<i>Overall</i>	66,637	269,893	246.90	9,316.0	625	67.09
<i>History of Intranasal or Oral Steroid Use</i>	50,827	193,051	263.28	11,425.9	771	67.48
<i>No History of Intranasal or Oral Steroid Use</i>	16,436	142,977	114.96	3,119.4	234	75.01
Glaucoma Diagnosis or Treatment						
Propel Stent Implant						
<i>Overall</i>	1,906	284,544	6.70	21.3	0	0.00
Intranasal Steroids						
<i>Overall</i>	52,066	203,805	255.47	4,843.5	207	42.74
Oral Steroids						
<i>Overall</i>	41,038	170,381	240.86	601.0	11	18.30
Sinus Surgery						
<i>Overall</i>	66,637	269,893	246.90	9,352.2	265	28.34
Diminished or Decreased Visual Acuity						
Propel Stent Implant						
<i>Overall</i>	1,906	284,544	6.70	21.3	1	46.95
Intranasal Steroids						
<i>Overall</i>	52,066	203,805	255.47	4,868.8	70	14.38
Oral Steroids						
<i>Overall</i>	41,038	170,381	240.86	600.9	14	23.30
Sinus Surgery						
<i>Overall</i>	66,637	269,893	246.90	9,365.9	124	13.24
Blindness						
Propel Stent Implant						
<i>Overall</i>	1,906	284,544	6.70	21.3	0	0.00
Intranasal Steroids						
<i>Overall</i>	52,066	203,805	255.47	4,876.1	20	4.10
Oral Steroids						
<i>Overall</i>	41,038	170,381	240.86	601.0	2	3.33
Sinus Surgery						
<i>Overall</i>	66,637	269,893	246.90	9,377.2	26	2.77

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Table 3. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Age Group

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Cataract Diagnosis or Cataracts Surgery						
Propel Stent Implant						
<i>Overall</i>						
0-18 years	95	17,960	5.29	1.4	0	0.00
19-24 years	89	15,587	5.71	0.7	0	0.00
25-40 years	449	69,205	6.49	4.6	0	0.00
41-64 years	1,094	146,312	7.48	11.6	0	0.00
65+ years	179	45,737	3.91	2.9	0	0.00
<i>History of Intranasal or Oral Steroid Use</i>						
0-18 years	74	11,336	6.53	1.4	0	0.00
19-24 years	78	10,411	7.49	0.5	0	0.00
25-40 years	363	50,676	7.16	3.8	0	0.00
41-64 years	896	110,807	8.09	9.8	1	102.04
65+ years	122	31,599	3.86	1.7	0	0.00
<i>No History of Intranasal or Oral Steroid Use</i>						
0-18 years	22	11,543	1.91	0.3	0	0.00
19-24 years	11	9,138	1.20	0.3	0	0.00
25-40 years	87	37,521	2.32	1.4	0	0.00
41-64 years	199	76,720	2.59	3.8	0	0.00
65+ years	57	25,243	2.26	1.6	0	0.00
<i>Two Propel Stent Implants within 365 Days</i>						
0-18 years	4	15,393	0.26	0.5	0	0.00
19-24 years	2	12,930	0.15	0.2	0	0.00
25-40 years	12	56,409	0.21	0.5	0	0.00
41-64 years	24	127,514	0.19	0.6	0	0.00
65+ years	7	41,528	0.17	0.5	0	0.00
Intranasal Steroids						
0-18 years	3,341	13,858	241.09	273.7	1	3.65
19-24 years	2,622	11,386	230.28	192.3	1	5.20
25-40 years	12,529	49,463	253.30	983.0	3	3.05
41-64 years	26,369	102,073	258.33	2,497.5	176	70.47
65+ years	7,205	31,025	232.23	844.1	296	350.67
Oral Steroids						
0-18 years	2,024	12,370	163.62	29.1	0	0.00
19-24 years	2,121	9,775	216.98	29.4	0	0.00
25-40 years	10,444	41,157	253.76	147.7	0	0.00
41-64 years	21,878	83,681	261.45	325.3	15	46.11
65+ years	4,571	26,286	173.89	69.3	22	317.46

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Table 3. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Age Group

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Sinus Surgery						
<i>Overall</i>						
0-18 years	4,025	17,144	234.78	625.3	1	1.60
19-24 years	3,634	14,231	255.36	536.6	0	0.00
25-40 years	16,534	64,724	255.45	2,278.5	2	0.88
41-64 years	34,892	138,126	252.61	4,735.3	257	54.27
65+ years	7,552	42,998	175.64	1,140.4	365	320.06
<i>History of Intranasal or Oral Steroid Use</i>						
0-18 years	2,826	10,510	268.89	642.0	0	0.00
19-24 years	2,573	9,234	278.64	578.1	0	0.00
25-40 years	12,826	46,309	276.97	2,884.2	3	1.04
41-64 years	27,338	102,718	266.15	6,142.9	365	59.42
65+ years	5,264	29,283	179.76	1,178.7	403	341.90
<i>No History of Intranasal or Oral Steroid Use</i>						
0-18 years	1,262	10,604	119.01	248.6	1	4.02
19-24 years	1,105	8,148	135.62	213.6	0	0.00
25-40 years	3,841	33,800	113.64	707.4	1	1.41
41-64 years	7,879	69,937	112.66	1,483.1	83	55.96
65+ years	2,349	23,373	100.50	466.6	149	319.33
Glaucoma Diagnosis or Treatment						
Propel Stent Implant						
0-18 years	95	17,960	5.29	1.4	0	0.00
19-24 years	89	15,587	5.71	0.7	0	0.00
25-40 years	449	69,205	6.49	4.6	0	0.00
41-64 years	1,094	146,312	7.48	11.6	0	0.00
65+ years	179	45,737	3.91	2.9	0	0.00
Intranasal Steroids						
0-18 years	3,341	13,858	241.09	273.7	1	3.65
19-24 years	2,622	11,386	230.28	192.3	0	0.00
25-40 years	12,529	49,463	253.30	982.6	16	16.28
41-64 years	26,369	102,073	258.33	2,503.5	111	44.34
65+ years	7,205	31,025	232.23	891.4	79	88.62
Oral Steroids						
0-18 years	2,024	12,370	163.62	29.1	0	0.00
19-24 years	2,121	9,775	216.98	29.4	1	34.01
25-40 years	10,444	41,157	253.76	147.7	2	13.54
41-64 years	21,878	83,681	261.45	325.4	4	12.29
65+ years	4,571	26,286	173.89	69.4	4	57.64
Sinus Surgery						
0-18 years	4,025	17,144	234.78	624.9	5	8.00
19-24 years	3,634	14,231	255.36	535.8	6	11.20
25-40 years	16,534	64,724	255.45	2,277.1	19	8.34
41-64 years	34,892	138,126	252.61	4,746.7	137	28.86
65+ years	7,552	42,998	175.64	1,167.7	98	83.93

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Table 3. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Age Group

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Diminished or Decreased Visual Acuity						
Propel Stent Implant						
0-18 years	95	17,960	5.29	1.4	0	0.00
19-24 years	89	15,587	5.71	0.7	0	0.00
25-40 years	449	69,205	6.49	4.6	0	0.00
41-64 years	1,094	146,312	7.48	11.6	1	86.21
65+ years	179	45,737	3.91	2.9	0	0.00
Intranasal Steroids						
0-18 years	3,341	13,858	241.09	273.6	1	3.65
19-24 years	2,622	11,386	230.28	192.2	2	10.41
25-40 years	12,529	49,463	253.30	980.9	14	14.27
41-64 years	26,369	102,073	258.33	2,515.1	38	15.11
65+ years	7,205	31,025	232.23	906.9	15	16.54
Oral Steroids						
0-18 years	2,024	12,370	163.62	29.1	2	68.73
19-24 years	2,121	9,775	216.98	29.4	0	0.00
25-40 years	10,444	41,157	253.76	147.7	0	0.00
41-64 years	21,878	83,681	261.45	325.3	9	27.67
65+ years	4,571	26,286	173.89	69.4	3	43.23
Sinus Surgery						
0-18 years	4,025	17,144	234.78	624.9	5	8.00
19-24 years	3,634	14,231	255.36	536.0	6	11.19
25-40 years	16,534	64,724	255.45	2,276.0	25	10.98
41-64 years	34,892	138,126	252.61	4,753.1	73	15.36
65+ years	7,552	42,998	175.64	1,175.9	15	12.76
Blindness						
Propel Stent Implant						
0-18 years	95	17,960	5.29	1.4	0	0.00
19-24 years	89	15,587	5.71	0.7	0	0.00
25-40 years	449	69,205	6.49	4.6	0	0.00
41-64 years	1,094	146,312	7.48	11.6	0	0.00
65+ years	179	45,737	3.91	2.9	0	0.00
Intranasal Steroids						
0-18 years	3,341	13,858	241.09	273.7	2	7.31
19-24 years	2,622	11,386	230.28	192.2	2	10.41
25-40 years	12,529	49,463	253.30	983.6	0	0.00
41-64 years	26,369	102,073	258.33	2,518.7	3	1.19
65+ years	7,205	31,025	232.23	907.8	13	14.32
Oral Steroids						
0-18 years	2,024	12,370	163.62	29.1	0	0.00
19-24 years	2,121	9,775	216.98	29.4	0	0.00
25-40 years	10,444	41,157	253.76	147.7	0	0.00
41-64 years	21,878	83,681	261.45	325.4	1	3.07
65+ years	4,571	26,286	173.89	69.4	1	14.41
Sinus Surgery						
0-18 years	4,025	17,144	234.78	625.4	0	0.00
19-24 years	3,634	14,231	255.36	536.5	1	1.86
25-40 years	16,534	64,724	255.45	2,278.6	2	0.88
41-64 years	34,892	138,126	252.61	4,760.3	11	2.31
65+ years	7,552	42,998	175.64	1,176.5	12	10.20

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Table 4. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Sex

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Cataract Diagnosis or Cataracts Surgery						
Propel Stent Implant						
<i>Overall</i>						
Female	779	124,190	6.27	8.8	0	0.00
Male	1,127	160,339	7.03	12.5	0	0.00
Other	0	15	0.00	0.0	0	.
<i>History of Intranasal or Oral Steroid Use</i>						
Female	627	89,902	6.97	7.2	1	138.89
Male	906	117,723	7.70	10.0	0	0.00
Other	0	12	0.00	0.0	0	.
<i>No History of Intranasal or Oral Steroid Use</i>						
Female	155	68,480	2.26	3.0	0	0.00
Male	221	88,113	2.51	4.3	0	0.00
Other	0	6	0.00	0.0	0	.
<i>Two Propel Stent Implants within 365 Days</i>						
Female	25	106,566	0.23	1.4	0	0.00
Male	24	138,337	0.17	0.9	0	0.00
Other	0	14	0.00	0.0	0	.
Intranasal Steroids						
Female	21,860	89,506	244.23	1,994.1	202	101.30
Male	30,201	114,286	264.26	2,796.2	275	98.35
Other	5	13	384.62	0.4	0	0.00
Oral Steroids						
Female	16,274	73,462	221.53	246.8	19	76.99
Male	24,763	96,913	255.52	354.0	18	50.85
Other	1	6	166.67	0.0	0	.
Sinus Surgery						
<i>Overall</i>						
Female	26,952	117,755	228.88	3,820.5	242	63.34
Male	39,680	152,123	260.84	5,495.2	383	69.70
Other	5	15	333.33	0.3	0	0.00
<i>History of Intranasal or Oral Steroid Use</i>						
Female	20,759	83,573	248.39	4,667.7	307	65.77
Male	30,063	109,466	274.63	6,757.2	464	68.67
Other	5	12	416.67	1.0	0	0.00
<i>No History of Intranasal or Oral Steroid Use</i>						
Female	6,461	62,507	103.36	1,238.8	93	75.07
Male	9,975	80,464	123.97	1,880.6	141	74.98
Other	0	6	0.00	0.0	0	.

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Table 4. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Sex

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Glaucoma Diagnosis or Treatment						
Propel Stent Implant						
Female	779	124,190	6.27	8.8	0	0.00
Male	1,127	160,339	7.03	12.5	0	0.00
Other	0	15	0.00	0.0	0	.
Intranasal Steroids						
Female	21,860	89,506	244.23	2,011.2	81	40.27
Male	30,201	114,286	264.26	2,831.9	126	44.49
Other	5	13	384.62	0.4	0	0.00
Oral Steroids						
Female	16,274	73,462	221.53	246.9	4	16.20
Male	24,763	96,913	255.52	354.0	7	19.77
Other	1	6	166.67	0.0	0	.
Sinus Surgery						
Female	26,952	117,755	228.88	3,834.1	109	28.43
Male	39,680	152,123	260.84	5,517.7	156	28.27
Other	5	15	333.33	0.3	0	0.00
Diminished or Decreased Visual Acuity						
Propel Stent Implant						
Female	779	124,190	6.27	8.8	0	0.00
Male	1,127	160,339	7.03	12.5	1	80.00
Other	0	15	0.00	0.0	0	.
Intranasal Steroids						
Female	21,860	89,506	244.23	2,016.7	32	15.87
Male	30,201	114,286	264.26	2,851.7	38	13.33
Other	5	13	384.62	0.4	0	0.00
Oral Steroids						
Female	16,274	73,462	221.53	246.9	4	16.20
Male	24,763	96,913	255.52	354.0	10	28.25
Other	1	6	166.67	0.0	0	.
Sinus Surgery						
Female	26,952	117,755	228.88	3,837.6	69	17.98
Male	39,680	152,123	260.84	5,527.9	55	9.95
Other	5	15	333.33	0.3	0	0.00
Blindness						
Propel Stent Implant						
Female	779	124,190	6.27	8.8	0	0.00
Male	1,127	160,339	7.03	12.5	0	0.00
Other	0	15	0.00	0.0	0	.
Intranasal Steroids						
Female	21,860	89,506	244.23	2,019.7	6	2.97
Male	30,201	114,286	264.26	2,856.0	14	4.90
Other	5	13	384.62	0.4	0	0.00
Oral Steroids						
Female	16,274	73,462	221.53	247.0	0	0.00
Male	24,763	96,913	255.52	354.0	2	5.65
Other	1	6	166.67	0.0	0	.
Sinus Surgery						
Female	26,952	117,755	228.88	3,843.2	14	3.64
Male	39,680	152,123	260.84	5,533.7	12	2.17
Other	5	15	333.33	0.3	0	0.00

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Table 5. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Year

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Cataract Diagnosis or Cataracts Surgery						
Propel Stent Implant						
<i>Overall</i>						
2011	53	51,076	1.04	2.0	0	0.00
2012	137	77,656	1.76	2.8	0	0.00
2013	199	82,055	2.43	3.1	0	0.00
2014	382	83,224	4.59	3.5	0	0.00
2015	524	82,510	6.35	4.3	0	0.00
2016	539	82,058	6.57	5.2	0	0.00
2017	72	26,510	2.72	0.4	0	0.00
<i>History of Intranasal or Oral Steroid Use</i>						
2011	38	36,966	1.03	1.1	0	0.00
2012	100	57,643	1.73	2.2	0	0.00
2013	159	61,546	2.58	2.7	0	0.00
2014	314	62,581	5.02	3.2	1	312.50
2015	431	58,563	7.36	3.3	0	0.00
2016	438	53,977	8.11	4.6	0	0.00
2017	53	16,780	3.16	0.2	0	0.00
<i>No History of Intranasal or Oral Steroid Use</i>						
2011	15	20,756	0.72	1.0	0	0.00
2012	37	34,228	1.08	1.0	0	0.00
2013	40	35,550	1.13	1.1	0	0.00
2014	68	35,741	1.90	1.1	0	0.00
2015	96	40,850	2.35	1.6	0	0.00
2016	101	45,358	2.23	1.4	0	0.00
2017	19	12,516	1.52	0.2	0	0.00
<i>Two Propel Stent Implants within 365 Days</i>						
2011	3	43,464	0.07	0.3	0	0.00
2012	4	68,664	0.06	0.0	0	.
2013	6	67,625	0.09	0.3	0	0.00
2014	7	69,405	0.10	0.3	0	0.00
2015	15	69,879	0.21	0.7	0	0.00
2016	11	72,938	0.15	0.8	0	0.00
2017	3	24,644	0.12	0.0	0	.
Intranasal Steroids						
2011	4,643	26,327	176.36	421.2	33	78.35
2012	11,181	44,345	252.14	1,060.0	97	91.51
2013	11,293	44,823	251.95	1,037.8	96	92.50
2014	10,724	44,485	241.07	1,008.8	98	97.15
2015	7,281	50,235	144.94	681.7	82	120.29
2016	6,096	55,947	108.96	529.8	65	122.69
2017	848	16,263	52.14	51.4	6	116.73

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Table 5. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Year

	Exposed Members	Eligible Members	Exposed Members		Exposed Members	
			per 1K Eligible Members	Years at Risk	with an Outcome	with an Outcome per 1K Years at Risk
Oral Steroids						
2011	2,878	20,986	137.14	39.9	3	75.19
2012	6,442	36,221	177.85	86.6	6	69.28
2013	6,507	36,798	176.83	86.5	4	46.24
2014	6,458	36,563	176.63	87.0	3	34.48
2015	8,000	40,402	198.01	124.9	9	72.06
2016	9,094	43,431	209.39	148.5	11	74.07
2017	1,659	10,876	152.54	27.4	1	36.50
Sinus Surgery						
<i>Overall</i>	5,272	45,056	117.01	735.3	46	62.56
2011	11,881	69,741	170.36	1,648.3	92	55.82
2012	12,207	71,377	171.02	1,698.3	108	63.59
2013	11,803	70,973	166.30	1,597.2	116	72.63
2014	12,010	69,893	171.83	1,777.6	130	73.13
2015	11,727	68,602	170.94	1,689.3	125	74.00
2016	1,737	19,985	86.92	170.1	8	47.03
2017						
<i>History of Intranasal or Oral Steroid Use</i>						
2011	3,932	31,873	123.36	907.7	54	59.49
2012	9,131	50,835	179.62	2,137.6	128	59.88
2013	9,535	52,697	180.94	2,214.1	136	61.42
2014	9,295	52,570	176.81	2,122.7	149	70.19
2015	9,133	48,479	188.39	2,072.4	150	72.38
2016	8,542	43,852	194.79	1,804.2	148	82.03
2017	1,259	12,215	103.07	167.0	6	35.93
<i>No History of Intranasal or Oral Steroid Use</i>						
2011	1,340	18,259	73.39	256.2	20	78.06
2012	2,775	30,432	91.19	533.3	31	58.13
2013	2,753	31,349	87.82	524.6	45	85.78
2014	2,661	31,464	84.57	504.9	42	83.18
2015	3,040	36,310	83.72	600.9	48	79.88
2016	3,364	40,286	83.50	637.8	43	67.42
2017	503	10,769	46.71	61.7	5	81.04
Glaucoma Diagnosis or Treatment						
Propel Stent Implant						
2011	53	51,076	1.04	2.0	0	0.00
2012	137	77,656	1.76	2.8	0	0.00
2013	199	82,055	2.43	3.1	0	0.00
2014	382	83,224	4.59	3.5	0	0.00
2015	524	82,510	6.35	4.3	0	0.00
2016	539	82,058	6.57	5.2	0	0.00
2017	72	26,510	2.72	0.4	0	0.00
Intranasal Steroids						
2011	4,643	26,327	176.36	425.9	14	32.87
2012	11,181	44,345	252.14	1,067.6	44	41.21
2013	11,293	44,823	251.95	1,046.7	51	48.72
2014	10,724	44,485	241.07	1,024.8	45	43.91
2015	7,281	50,235	144.94	691.3	27	39.06
2016	6,096	55,947	108.96	535.7	24	44.80
2017	848	16,263	52.14	51.5	2	38.83

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Table 5. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Year

	Exposed Members	Eligible Members	Exposed Members per 1K Eligible Members	Years at Risk	Exposed Members with an Outcome	Exposed Members with an Outcome per 1K Years at Risk
Oral Steroids						
2011	2,878	20,986	137.14	39.9	1	25.06
2012	6,442	36,221	177.85	86.6	0	0.00
2013	6,507	36,798	176.83	86.5	4	46.24
2014	6,458	36,563	176.63	87.0	0	0.00
2015	8,000	40,402	198.01	125.0	1	8.00
2016	9,094	43,431	209.39	148.6	3	20.19
2017	1,659	10,876	152.54	27.4	2	72.99
Sinus Surgery						
2011	5,272	45,056	117.01	739.0	18	24.36
2012	11,881	69,741	170.36	1,653.8	44	26.61
2013	12,207	71,377	171.02	1,703.7	42	24.65
2014	11,803	70,973	166.30	1,603.5	53	33.05
2015	12,010	69,893	171.83	1,785.9	46	25.76
2016	11,727	68,602	170.94	1,695.9	57	33.61
2017	1,737	19,985	86.92	170.5	5	29.33
Diminished or Decreased Visual Acuity						
Propel Stent Implant						
2011	53	51,076	1.04	2.0	0	0.00
2012	137	77,656	1.76	2.8	0	0.00
2013	199	82,055	2.43	3.1	1	322.58
2014	382	83,224	4.59	3.5	0	0.00
2015	524	82,510	6.35	4.3	0	0.00
2016	539	82,058	6.57	5.2	0	0.00
2017	72	26,510	2.72	0.4	0	0.00
Intranasal Steroids						
2011	4,643	26,327	176.36	427.3	5	11.70
2012	11,181	44,345	252.14	1,076.0	15	13.94
2013	11,293	44,823	251.95	1,053.8	9	8.54
2014	10,724	44,485	241.07	1,026.3	12	11.69
2015	7,281	50,235	144.94	694.3	18	25.93
2016	6,096	55,947	108.96	539.5	9	16.68
2017	848	16,263	52.14	51.6	2	38.76
Oral Steroids						
2011	2,878	20,986	137.14	39.9	1	25.06
2012	6,442	36,221	177.85	86.6	2	23.09
2013	6,507	36,798	176.83	86.5	0	0.00
2014	6,458	36,563	176.63	87.0	5	57.47
2015	8,000	40,402	198.01	125.0	3	24.00
2016	9,094	43,431	209.39	148.6	3	20.19
2017	1,659	10,876	152.54	27.4	0	0.00
Sinus Surgery						
2011	5,272	45,056	117.01	739.6	5	6.76
2012	11,881	69,741	170.36	1,655.6	27	16.31
2013	12,207	71,377	171.02	1,704.5	28	16.43
2014	11,803	70,973	166.30	1,606.4	26	16.19
2015	12,010	69,893	171.83	1,789.3	20	11.18
2016	11,727	68,602	170.94	1,699.9	15	8.82
2017	1,737	19,985	86.92	170.6	3	17.58

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Table 5. Summary of Incident Stent Implant, Intranasal Steroid Use, Oral Steroid Use, or Sinus Surgery and Subsequent Development of Cataracts, Glaucoma, Diminished Visual Acuity, and Blindness in the Sentinel Distributed Database between August 1, 2011 and May 31, 2017, by Year

	Exposed Members	Eligible Members	Exposed Members		Exposed Members	
			per 1K Eligible Members	Years at Risk	with an Outcome	with an Outcome per 1K Years at Risk
Blindness						
Propel Stent Implant						
2011	53	51,076	1.04	2.0	0	0.00
2012	137	77,656	1.76	2.8	0	0.00
2013	199	82,055	2.43	3.1	0	0.00
2014	382	83,224	4.59	3.5	0	0.00
2015	524	82,510	6.35	4.3	0	0.00
2016	539	82,058	6.57	5.2	0	0.00
2017	72	26,510	2.72	0.4	0	0.00
Intranasal Steroids						
2011	4,643	26,327	176.36	427.8	0	0.00
2012	11,181	44,345	252.14	1,077.6	2	1.86
2013	11,293	44,823	251.95	1,056.2	4	3.79
2014	10,724	44,485	241.07	1,030.4	5	4.85
2015	7,281	50,235	144.94	693.0	5	7.22
2016	6,096	55,947	108.96	539.2	4	7.42
2017	848	16,263	52.14	51.8	0	0.00
Oral Steroids						
2011	2,878	20,986	137.14	39.9	0	0.00
2012	6,442	36,221	177.85	86.6	0	0.00
2013	6,507	36,798	176.83	86.5	0	0.00
2014	6,458	36,563	176.63	87.0	0	0.00
2015	8,000	40,402	198.01	125.0	1	8.00
2016	9,094	43,431	209.39	148.6	1	6.73
2017	1,659	10,876	152.54	27.4	0	0.00
Sinus Surgery						
2011	5,272	45,056	117.01	740.3	1	1.35
2012	11,881	69,741	170.36	1,657.6	6	3.62
2013	12,207	71,377	171.02	1,708.2	2	1.17
2014	11,803	70,973	166.30	1,607.7	9	5.60
2015	12,010	69,893	171.83	1,790.8	7	3.91
2016	11,727	68,602	170.94	1,701.7	1	0.59
2017	1,737	19,985	86.92	171.0	0	0.00

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Appendix A: Latest Date of Available Data for Each Data Partner (DP) during the Query Period

DP ID	Start Date	End Date
DP0001	8/1/2011	05/31/2017
DP0002	8/1/2011	04/30/2017
DP0003	8/1/2011	04/30/2017
DP0004	8/1/2011	03/31/2017
DP0005	8/1/2011	03/31/2017
DP0006	8/1/2011	03/31/2017
DP0007	8/1/2011	03/31/2017
DP0008	8/1/2011	03/31/2017
DP0009	8/1/2011	01/31/2017
DP0010	8/1/2011	01/31/2017
DP0011	8/1/2011	12/31/2016
DP0012	8/1/2011	06/30/2016
DP0013	8/1/2011	06/30/2016
DP0014	8/1/2011	12/31/2015
DP0015	8/1/2011	05/31/2015
DP0016	8/1/2011	10/31/2014

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Appendix B: List of Healthcare Common Procedure Coding System (HCPCS), Current Procedural Terminology, Third Edition (CPT-3), and Current Procedural Terminology, fourth Edition (CPT-4) Procedure Codes Used to Define Stent Implants in this Request

Code Type	Code	Description
HCPCS	S1090	Mometasone furoate sinus implant, 370 micrograms
CPT-3	0406T	Nasal endoscopy, surgical, ethmoid sinus, placement of drug eluting implant;
CPT-3	0407T	Nasal endoscopy, surgical, ethmoid sinus, placement of drug eluting implant; with biopsy, polypectomy or debridement
CPT-4	31299	Unlisted procedure, accessory sinuses

Appendix C: List of Generic Names Used to Define Intranasal Steroids in this Request

Generic Name

AZELASTINE/FLUTICASON
AZELASTINE/FLUTICASON
BECLOMETHASONE DIPROPIONATE
BECLOMETHASONE DIPROPIONATE
BUDESONIDE
BUDESONIDE
BUDESONIDE
FLUNISOLIDE
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
FLUTICASON
MOMETASONE FUROATE
MOMETASONE FUROATE
TRIAMCINOLONE ACETONIDE
TRIAMCINOLONE ACETONIDE
TRIAMCINOLONE ACETONIDE
TRIAMCINOLONE ACETONIDE
TRIAMCINOLONE ACETONIDE

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Appendix E: List of Current Procedural Terminology, Fourth Edition (CPT-4) Procedure Codes Used to Define Sinus Surgery in this Request

Code Type	Code	Description
CPT-4	31237	Nasal/sinus endoscopy, surgical; with biopsy, polypectomy or debridement (separate procedure)
CPT-4	31238	Nasal/sinus endoscopy, surgical; with control of nasal hemorrhage
CPT-4	31239	Nasal/sinus endoscopy, surgical; with dacryocystorhinostomy
CPT-4	31240	Nasal/sinus endoscopy, surgical; with concha bullosa resection
CPT-4	31254	Nasal/sinus endoscopy, surgical; with ethmoidectomy, partial (anterior)
CPT-4	31255	Nasal/sinus endoscopy, surgical; with ethmoidectomy, total (anterior and posterior)
CPT-4	31256	Nasal/sinus endoscopy, surgical, with maxillary antrostomy;
CPT-4	31267	Nasal/sinus endoscopy, surgical, with maxillary antrostomy; with removal of tissue from maxillary sinus
CPT-4	31276	Nasal/sinus endoscopy, surgical with frontal sinus exploration, with or without removal of tissue from frontal sinus
CPT-4	31287	Nasal/sinus endoscopy, surgical, with sphenoidotomy;
CPT-4	31288	Nasal/sinus endoscopy, surgical, with sphenoidotomy; with removal of tissue from the sphenoid sinus
CPT-4	31290	Nasal/sinus endoscopy, surgical, with repair of cerebrospinal fluid leak; ethmoid region
CPT-4	31291	Nasal/sinus endoscopy, surgical, with repair of cerebrospinal fluid leak; sphenoid region
CPT-4	31292	Nasal/sinus endoscopy, surgical; with medial or inferior orbital wall decompression
CPT-4	31293	Nasal/sinus endoscopy, surgical; with medial orbital wall and inferior orbital wall decompression
CPT-4	31294	Nasal/sinus endoscopy, surgical; with optic nerve decompression
CPT-4	31295	Nasal/sinus endoscopy, surgical; with dilation of maxillary sinus ostium (eg, balloon dilation), transnasal or via canine fossa
CPT-4	31296	Nasal/sinus endoscopy, surgical; with dilation of frontal sinus ostium (eg, balloon dilation)
CPT-4	31297	Nasal/sinus endoscopy, surgical; with dilation of sphenoid sinus ostium (eg, balloon dilation)

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
Cataracts		
ICD-9-CM	366	Cataract
ICD-9-CM	366.00	Unspecified nonsenile cataract
ICD-9-CM	366.01	Anterior subcapsular polar cataract, nonsenile
ICD-9-CM	366.02	Posterior subcapsular polar cataract, nonsenile
ICD-9-CM	366.03	Cortical, lamellar, or zonular cataract, nonsenile
ICD-9-CM	366.04	Nuclear cataract, nonsenile
ICD-9-CM	366.09	Other and combined forms of nonsenile cataract
ICD-9-CM	366.1	Senile cataract
ICD-9-CM	366.10	Unspecified senile cataract
ICD-9-CM	366.11	Pseudoexfoliation of lens capsule
ICD-9-CM	366.12	Incipient cataract
ICD-9-CM	366.13	Anterior subcapsular polar senile cataract
ICD-9-CM	366.14	Posterior subcapsular polar senile cataract
ICD-9-CM	366.15	Cortical senile cataract
ICD-9-CM	366.16	Nuclear sclerosis
ICD-9-CM	366.17	Total or mature senile cataract
ICD-9-CM	366.18	Hyper mature senile cataract
ICD-9-CM	366.19	Other and combined forms of senile cataract
ICD-9-CM	366.2	Traumatic cataract
ICD-9-CM	366.20	Unspecified traumatic cataract
ICD-9-CM	366.21	Localized traumatic opacities of cataract
ICD-9-CM	366.22	Total traumatic cataract
ICD-9-CM	366.23	Partially resolved traumatic cataract
ICD-9-CM	366.3	Cataract secondary to ocular disorders
ICD-9-CM	366.30	Unspecified cataracta complicata
ICD-9-CM	366.31	Cataract secondary to glaucomatous flecks (subcapsular)
ICD-9-CM	366.32	Cataract in inflammatory ocular disorders
ICD-9-CM	366.33	Cataract with ocular neovascularization
ICD-9-CM	366.34	Cataract in degenerative ocular disorders
ICD-9-CM	366.4	Cataract associated with other disorders
ICD-9-CM	366.50	Unspecified after-cataract
ICD-9-CM	366.52	Other after-cataract, not obscuring vision
ICD-9-CM	366.53	After-cataract, obscuring vision
ICD-9-CM	366.8	Other cataract
ICD-9-CM	366.9	Unspecified cataract
CPT-4	66820	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); stab incision technique (Ziegler or Wheeler knife)
CPT-4	66821	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages)
CPT-4	66825	Repositioning of intraocular lens prosthesis, requiring an incision (separate procedure)
CPT-4	66830	Removal of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid) with corneo-scleral section, with or without iridectomy (iridocapsulotomy, iridocapsulectomy)

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
CPT-4	66840	Removal of lens material; aspiration technique, 1 or more stages
CPT-4	66850	Removal of lens material; phacofragmentation technique (mechanical or ultrasonic) (eg, phacoemulsification), with aspiration
CPT-4	66852	Removal of lens material; pars plana approach, with or without vitrectomy
CPT-4	66920	Removal of lens material; intracapsular
CPT-4	66930	Removal of lens material; intracapsular, for dislocated lens
CPT-4	66940	Removal of lens material; extracapsular (other than 66840, 66850, 66852)
CPT-4	66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage
CPT-4	66983	Intracapsular cataract extraction with insertion of intraocular lens prosthesis (1 stage procedure)
CPT-4	66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification)
ICD-10-CM	H25.011	Cortical age-related cataract, right eye
ICD-10-CM	H25.012	Cortical age-related cataract, left eye
ICD-10-CM	H25.013	Cortical age-related cataract, bilateral
ICD-10-CM	H25.019	Cortical age-related cataract, unspecified eye
ICD-10-CM	H25.031	Anterior subcapsular polar age-related cataract, right eye
ICD-10-CM	H25.032	Anterior subcapsular polar age-related cataract, left eye
ICD-10-CM	H25.033	Anterior subcapsular polar age-related cataract, bilateral
ICD-10-CM	H25.039	Anterior subcapsular polar age-related cataract, unspecified eye
ICD-10-CM	H25.041	Posterior subcapsular polar age-related cataract, right eye
ICD-10-CM	H25.042	Posterior subcapsular polar age-related cataract, left eye
ICD-10-CM	H25.043	Posterior subcapsular polar age-related cataract, bilateral
ICD-10-CM	H25.049	Posterior subcapsular polar age-related cataract, unspecified eye
ICD-10-CM	H25.091	Other age-related incipient cataract, right eye
ICD-10-CM	H25.092	Other age-related incipient cataract, left eye
ICD-10-CM	H25.093	Other age-related incipient cataract, bilateral
ICD-10-CM	H25.099	Other age-related incipient cataract, unspecified eye
ICD-10-CM	H25.10	Age-related nuclear cataract, unspecified eye
ICD-10-CM	H25.11	Age-related nuclear cataract, right eye
ICD-10-CM	H25.12	Age-related nuclear cataract, left eye
ICD-10-CM	H25.13	Age-related nuclear cataract, bilateral
ICD-10-CM	H25.20	Age-related cataract, morgagnian type, unspecified eye
ICD-10-CM	H25.21	Age-related cataract, morgagnian type, right eye
ICD-10-CM	H25.22	Age-related cataract, morgagnian type, left eye
ICD-10-CM	H25.23	Age-related cataract, morgagnian type, bilateral
ICD-10-CM	H25.811	Combined forms of age-related cataract, right eye
ICD-10-CM	H25.812	Combined forms of age-related cataract, left eye
ICD-10-CM	H25.813	Combined forms of age-related cataract, bilateral

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-10-CM	H25.819	Combined forms of age-related cataract, unspecified eye
ICD-10-CM	H25.89	Other age-related cataract
ICD-10-CM	H25.9	Unspecified age-related cataract
ICD-10-CM	H26.101	Unspecified traumatic cataract, right eye
ICD-10-CM	H26.102	Unspecified traumatic cataract, left eye
ICD-10-CM	H26.103	Unspecified traumatic cataract, bilateral
ICD-10-CM	H26.109	Unspecified traumatic cataract, unspecified eye
ICD-10-CM	H26.111	Localized traumatic opacities, right eye
ICD-10-CM	H26.112	Localized traumatic opacities, left eye
ICD-10-CM	H26.113	Localized traumatic opacities, bilateral
ICD-10-CM	H26.119	Localized traumatic opacities, unspecified eye
ICD-10-CM	H26.121	Partially resolved traumatic cataract, right eye
ICD-10-CM	H26.122	Partially resolved traumatic cataract, left eye
ICD-10-CM	H26.123	Partially resolved traumatic cataract, bilateral
ICD-10-CM	H26.129	Partially resolved traumatic cataract, unspecified eye
ICD-10-CM	H26.131	Total traumatic cataract, right eye
ICD-10-CM	H26.132	Total traumatic cataract, left eye
ICD-10-CM	H26.133	Total traumatic cataract, bilateral
ICD-10-CM	H26.139	Total traumatic cataract, unspecified eye
ICD-10-CM	H26.20	Unspecified complicated cataract
ICD-10-CM	H26.211	Cataract with neovascularization, right eye
ICD-10-CM	H26.212	Cataract with neovascularization, left eye
ICD-10-CM	H26.213	Cataract with neovascularization, bilateral
ICD-10-CM	H26.219	Cataract with neovascularization, unspecified eye
ICD-10-CM	H26.221	Cataract secondary to ocular disorders (degenerative) (inflammatory), right eye
ICD-10-CM	H26.222	Cataract secondary to ocular disorders (degenerative) (inflammatory), left eye
ICD-10-CM	H26.223	Cataract secondary to ocular disorders (degenerative) (inflammatory), bilateral
ICD-10-CM	H26.229	Cataract secondary to ocular disorders (degenerative) (inflammatory), unspecified eye
ICD-10-CM	H26.231	Glaucomatous flecks (subcapsular), right eye
ICD-10-CM	H26.232	Glaucomatous flecks (subcapsular), left eye
ICD-10-CM	H26.233	Glaucomatous flecks (subcapsular), bilateral
ICD-10-CM	H26.239	Glaucomatous flecks (subcapsular), unspecified eye
ICD-10-CM	H26.30	Drug-induced cataract, unspecified eye
ICD-10-CM	H26.31	Drug-induced cataract, right eye
ICD-10-CM	H26.32	Drug-induced cataract, left eye
ICD-10-CM	H26.33	Drug-induced cataract, bilateral
ICD-10-CM	H26.40	Unspecified secondary cataract
ICD-10-CM	H26.491	Other secondary cataract, right eye
ICD-10-CM	H26.492	Other secondary cataract, left eye
ICD-10-CM	H26.493	Other secondary cataract, bilateral
ICD-10-CM	H26.499	Other secondary cataract, unspecified eye
ICD-10-CM	H26.8	Other specified cataract
ICD-10-CM	H26.9	Unspecified cataract

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-10-CM	H28	Cataract in diseases classified elsewhere
ICD-9-CM	13.41	Phacoemulsification and aspiration of cataract
ICD-9-CM	13.42	Mechanical phacofragmentation and aspiration of cataract by posterior route
ICD-9-CM	13.43	Mechanical phacofragmentation and other aspiration of cataract
ICD-9-CM	13.6	Other cataract extraction
ICD-9-CM	13.64	Discission of secondary membrane (after cataract)
ICD-9-CM	13.65	Excision of secondary membrane (after cataract)
ICD-9-CM	13.66	Mechanical fragmentation of secondary membrane (after cataract)
ICD-9-CM	13.69	Other cataract extraction
ICD-10-PCS	08DJ3ZZ	Extraction of Right Lens, Percutaneous Approach
ICD-10-PCS	08DK3ZZ	Extraction of Left Lens, Percutaneous Approach
ICD-10-PCS	085J3ZZ	Destruction of Right Lens, Percutaneous Approach
ICD-10-PCS	085K3ZZ	Destruction of Left Lens, Percutaneous Approach
ICD-10-PCS	08BJ3ZZ	Excision of Right Lens, Percutaneous Approach
ICD-10-PCS	08BK3ZZ	Excision of Left Lens, Percutaneous Approach
CPT-4	66820	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); stab incision technique (Ziegler or Wheeler knife)
CPT-4	66821	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages)
CPT-4	66825	Repositioning of intraocular lens prosthesis, requiring an incision (separate procedure)
CPT-4	66830	Removal of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid) with corneo-scleral section, with or without iridectomy (iridocapsulotomy, iridocapsulectomy)
CPT-4	66840	Removal of lens material; aspiration technique, 1 or more stages
CPT-4	66850	Removal of lens material; phacofragmentation technique (mechanical or ultrasonic) (eg, phacoemulsification), with aspiration
CPT-4	66852	Removal of lens material; pars plana approach, with or without vitrectomy
CPT-4	66920	Removal of lens material; intracapsular
CPT-4	66930	Removal of lens material; intracapsular, for dislocated lens
CPT-4	66940	Removal of lens material; extracapsular (other than 66840, 66850, 66852)
CPT-4	66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage
CPT-4	66983	Intracapsular cataract extraction with insertion of intraocular lens prosthesis (1 stage procedure)
CPT-4	66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification)
Glaucoma		
ICD-9-CM	365	Glaucoma
ICD-9-CM	365.0	Borderline glaucoma (glaucoma suspect)
ICD-9-CM	365.00	Unspecified preglaucoma
ICD-9-CM	365.01	Borderline glaucoma, open angle with borderline findings, low risk

Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
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	365.05	Open angle with borderline findings, high risk
ICD-9-CM	365.06	Primary angle closure without glaucoma damage
ICD-9-CM	365.1	Open-angle glaucoma
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	365.14	Open-angle glaucoma of childhood
ICD-9-CM	365.15	Residual stage of open angle glaucoma
ICD-9-CM	365.2	Primary angle-closure 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	365.3	Corticosteroid-induced glaucoma
ICD-9-CM	365.31	Corticosteroid-induced glaucoma, glaucomatous stage
ICD-9-CM	365.32	Corticosteroid-induced glaucoma, residual stage
ICD-9-CM	365.4	Glaucoma associated with congenital anomalies, dystrophies, and systemic syndromes
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	365.44	Glaucoma associated with systemic syndromes
ICD-9-CM	365.5	Glaucoma associated with disorders of the lens
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	365.6	Glaucoma associated with other ocular 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	365.7	Glaucoma stage
ICD-9-CM	365.70	Glaucoma stage, unspecified
ICD-9-CM	365.71	Mild stage glaucoma
ICD-9-CM	365.72	Moderate stage glaucoma
ICD-9-CM	365.73	Severe stage glaucoma
ICD-9-CM	365.74	Indeterminate stage glaucoma

Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-9-CM	365.8	Other specified forms of glaucoma
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-10-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	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	H40.021	Open angle with borderline findings, high risk, right eye
ICD-10-CM	H40.022	Open angle with borderline findings, high risk, left eye
ICD-10-CM	H40.023	Open angle with borderline findings, high risk, bilateral
ICD-10-CM	H40.029	Open angle with borderline findings, high 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	H40.061	Primary angle closure without glaucoma damage, right eye
ICD-10-CM	H40.062	Primary angle closure without glaucoma damage, left eye
ICD-10-CM	H40.063	Primary angle closure without glaucoma damage, bilateral
ICD-10-CM	H40.069	Primary angle closure without glaucoma damage, 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

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
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	H40.1210	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

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
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	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

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
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	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

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
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	H40.32X4	Glaucoma secondary to eye trauma, left eye, indeterminate 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	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

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Code Type	Code	Description
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	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	Q15.0	Congenital glaucoma
Diminished or Decreased Visual Acuity		
ICD-9-CM	368	Visual disturbances

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-9-CM	368.11	Sudden visual loss
ICD-9-CM	368.12	Transient visual loss
ICD-9-CM	368.8	Other specified visual disturbances
ICD-9-CM	368.9	Unspecified visual disturbance
ICD-10-CM	H53.121	Transient visual loss, right eye
ICD-10-CM	H53.122	Transient visual loss, left eye
ICD-10-CM	H53.123	Transient visual loss, bilateral
ICD-10-CM	H53.129	Transient visual loss, unspecified eye
ICD-10-CM	H53.131	Sudden visual loss, right eye
ICD-10-CM	H53.132	Sudden visual loss, left eye
ICD-10-CM	H53.133	Sudden visual loss, bilateral
ICD-10-CM	H53.139	Sudden visual loss, unspecified eye
ICD-10-CM	H53.8	Other visual disturbances
ICD-10-CM	H53.9	Unspecified visual disturbance

Blindness

ICD-9-CM	369	Blindness and low vision
ICD-9-CM	369.0	Profound impairment, both eyes
ICD-9-CM	369.00	Blindness of both eyes, impairment level not further specified
ICD-9-CM	369.01	Better eye: total vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.02	Better eye: near-total vision impairment; lesser eye: not further specified
ICD-9-CM	369.03	Better eye: near-total vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.04	Better eye: near-total vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.05	Better eye: profound vision impairment; lesser eye: not further specified
ICD-9-CM	369.06	Better eye: profound vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.07	Better eye: profound vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.08	Better eye: profound vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.1	Moderate or severe impairment, better eye; profound vision impairment of lesser eye
ICD-9-CM	369.10	Profound, moderate or severe vision impairment, not further specified
ICD-9-CM	369.11	Better eye: severe vision impairment; lesser eye: blind, not further specified
ICD-9-CM	369.12	Better eye: severe vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.13	Better eye: severe vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.14	Better eye: severe vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.15	Better eye: moderate vision impairment; lesser eye: blind, not further specified
ICD-9-CM	369.16	Better eye: moderate vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.17	Better eye: moderate vision impairment; lesser eye: near-total vision impairment

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-9-CM	369.18	Better eye: moderate vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.2	Moderate or severe vision impairment, both eyes
ICD-9-CM	369.20	Vision impairment, both eyes, impairment level not further specified
ICD-9-CM	369.21	Better eye: severe vision impairment; lesser eye; impairment not further specified
ICD-9-CM	369.22	Better eye: severe vision impairment; lesser eye: severe vision impairment
ICD-9-CM	369.23	Better eye: moderate vision impairment; lesser eye: impairment not further specified
ICD-9-CM	369.24	Better eye: moderate vision impairment; lesser eye: severe vision impairment
ICD-9-CM	369.25	Better eye: moderate vision impairment; lesser eye: moderate vision impairment
ICD-9-CM	369.3	Unqualified visual loss, both eyes
ICD-9-CM	369.4	Legal blindness, as defined in USA
ICD-9-CM	369.6	Profound vision impairment, one eye
ICD-9-CM	369.60	Impairment level not further specified
ICD-9-CM	369.61	One eye: total vision impairment; other eye: not specified
ICD-9-CM	369.62	One eye: total vision impairment; other eye: near-normal vision
ICD-9-CM	369.63	One eye: total vision impairment; other eye: normal vision
ICD-9-CM	369.64	One eye: near-total vision impairment; other eye: vision not specified
ICD-9-CM	369.65	One eye: near-total vision impairment; other eye: near-normal vision
ICD-9-CM	369.66	One eye: near-total vision impairment; other eye: normal vision
ICD-9-CM	369.67	One eye: profound vision impairment; other eye: vision not specified
ICD-9-CM	369.68	One eye: profound vision impairment; other eye: near-normal vision
ICD-9-CM	369.69	One eye: profound vision impairment; other eye: normal vision
ICD-9-CM	369.7	Moderate or severe vision impairment, one eye
ICD-9-CM	369.70	Low vision, one eye, not otherwise specified
ICD-9-CM	369.71	One eye: severe vision impairment; other eye: vision not specified
ICD-9-CM	369.72	One eye: severe vision impairment; other eye: near-normal vision
ICD-9-CM	369.73	One eye: severe vision impairment; other eye: normal vision
ICD-9-CM	369.74	One eye: moderate vision impairment; other eye: vision not specified
ICD-9-CM	369.75	One eye: moderate vision impairment; other eye: near-normal vision
ICD-9-CM	369.76	One eye: moderate vision impairment; other eye: normal vision
ICD-9-CM	369.8	Unqualified visual loss, one eye
ICD-9-CM	369.9	Unspecified visual loss
ICD-10-CM	H54.0	Blindness, both eyes
ICD-10-CM	H54.10	Blindness, one eye, low vision other eye, unspecified eyes
ICD-10-CM	H54.11	Blindness, right eye, low vision left eye
ICD-10-CM	H54.12	Blindness, left eye, low vision right eye
ICD-10-CM	H54.2	Low vision, both eyes
ICD-10-CM	H54.3	Unqualified visual loss, both eyes
ICD-10-CM	H54.8	Legal blindness, as defined in USA
ICD-10-CM	H54.40	Blindness, one eye, unspecified eye
ICD-10-CM	H54.41	Blindness, right eye, normal vision left eye
ICD-10-CM	H54.42	Blindness, left eye, normal vision right eye
ICD-10-CM	H54.50	Low vision, one eye, unspecified eye
ICD-10-CM	H54.51	Low vision, right eye, normal vision left eye

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Appendix F: List of Diagnosis and Procedure Codes Used to Define Outcomes in this Request

Code Type	Code	Description
ICD-10-CM	H54.52	Low vision, left eye, normal vision right eye
ICD-10-CM	H54.60	Unqualified visual loss, one eye, unspecified
ICD-10-CM	H54.61	Unqualified visual loss, right eye, normal vision left eye
ICD-10-CM	H54.62	Unqualified visual loss, left eye, normal vision right eye
ICD-10-CM	H54.7	Unspecified visual loss

Appendix G: List of Generic Names Used to Define Outcomes in this Request

Generic Name

Glaucoma Treatment

ACETYLCHOLINE CHLORIDE
 APRACLONIDINE HCL
 APRACLONIDINE HCL
 BETAXOLOL HCL
 BETAXOLOL HCL
 BIMATOPROST
 BIMATOPROST
 BRIMONIDINE TARTRATE
 BRIMONIDINE TARTRATE
 BRIMONIDINE TARTRATE/TIMOLOL MALEATE
 BRINZOLAMIDE
 BRINZOLAMIDE/BRIMONIDINE TARTRATE
 CARBACHOL
 CARBACHOL
 CARTEOLOL HCL
 DORZOLAMIDE HCL
 DORZOLAMIDE HCL
 DORZOLAMIDE HCL/TIMOLOL MALEATE
 DORZOLAMIDE HCL/TIMOLOL MALEATE
 DORZOLAMIDE HCL/TIMOLOL MALEATE/PF
 ECHOTHIOPHATE IODIDE
 LATANOPROST
 LATANOPROST
 LEVOBUNOLOL HCL
 LEVOBUNOLOL HCL
 METIPRANOLOL
 METIPRANOLOL
 PILOCARPINE HCL
 PILOCARPINE HCL
 PILOCARPINE HCL
 TAFLUPROST/PF
 TIMOLOL
 TIMOLOL MALEATE
 TIMOLOL MALEATE
 TIMOLOL MALEATE
 TIMOLOL MALEATE
 TIMOLOL MALEATE/PF
 TRAVOPROST
 TRAVOPROST (BENZALKONIUM)
 UNOPROSTONE ISOPROPYL

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
Nasal Polyps		
ICD-9-CM	471	Nasal polyps
ICD-9-CM	471.0	Polyp of nasal cavity
ICD-9-CM	471.1	Polypoid sinus degeneration
ICD-9-CM	471.8	Other polyp of sinus
ICD-9-CM	471.9	Unspecified nasal polyp
ICD-10-CM	J33	Nasal polyp
ICD-10-CM	J33.0	Polyp of nasal cavity
ICD-10-CM	J33.1	Polypoid sinus degeneration
ICD-10-CM	J33.8	Other polyp of sinus
ICD-10-CM	J33.9	Nasal polyp, unspecified
Trabeculoplasty		
CPT-4	65855	Trabeculoplasty by laser surgery
Cataracts		
ICD-9-CM	366	Cataract
ICD-9-CM	366.00	Unspecified nonsenile cataract
ICD-9-CM	366.01	Anterior subcapsular polar cataract, nonsenile
ICD-9-CM	366.02	Posterior subcapsular polar cataract, nonsenile
ICD-9-CM	366.03	Cortical, lamellar, or zonular cataract, nonsenile
ICD-9-CM	366.04	Nuclear cataract, nonsenile
ICD-9-CM	366.09	Other and combined forms of nonsenile cataract
ICD-9-CM	366.1	Senile cataract
ICD-9-CM	366.10	Unspecified senile cataract
ICD-9-CM	366.11	Pseudoexfoliation of lens capsule
ICD-9-CM	366.12	Incipient cataract
ICD-9-CM	366.13	Anterior subcapsular polar senile cataract
ICD-9-CM	366.14	Posterior subcapsular polar senile cataract
ICD-9-CM	366.15	Cortical senile cataract
ICD-9-CM	366.16	Nuclear sclerosis
ICD-9-CM	366.17	Total or mature senile cataract
ICD-9-CM	366.18	Hypermature senile cataract
ICD-9-CM	366.19	Other and combined forms of senile cataract
ICD-9-CM	366.2	Traumatic cataract
ICD-9-CM	366.20	Unspecified traumatic cataract
ICD-9-CM	366.21	Localized traumatic opacities of cataract
ICD-9-CM	366.22	Total traumatic cataract
ICD-9-CM	366.23	Partially resolved traumatic cataract
ICD-9-CM	366.3	Cataract secondary to ocular disorders
ICD-9-CM	366.30	Unspecified cataract complicata
ICD-9-CM	366.31	Cataract secondary to glaucomatous flecks (subcapsular)
ICD-9-CM	366.32	Cataract in inflammatory ocular disorders
ICD-9-CM	366.33	Cataract with ocular neovascularization
ICD-9-CM	366.34	Cataract in degenerative ocular disorders
ICD-9-CM	366.4	Cataract associated with other disorders
ICD-9-CM	366.50	Unspecified after-cataract
ICD-9-CM	366.52	Other after-cataract, not obscuring vision
ICD-9-CM	366.53	After-cataract, obscuring vision
ICD-9-CM	366.8	Other cataract
ICD-9-CM	366.9	Unspecified cataract

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
CPT-4	66820	Dissection of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); stab incision technique (Ziegler or Wheeler knife)
CPT-4	66821	Dissection of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages)
CPT-4	66825	Repositioning of intraocular lens prosthesis, requiring an incision (separate procedure)
CPT-4	66830	Removal of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid) with corneo-scleral section, with or without iridectomy (iridocapsulotomy, iridocapsulectomy)
CPT-4	66840	Removal of lens material; aspiration technique, 1 or more stages
CPT-4	66850	Removal of lens material; phacofragmentation technique (mechanical or ultrasonic) (eg, phacoemulsification), with aspiration
CPT-4	66852	Removal of lens material; pars plana approach, with or without vitrectomy
CPT-4	66920	Removal of lens material; intracapsular
CPT-4	66930	Removal of lens material; intracapsular, for dislocated lens
CPT-4	66940	Removal of lens material; extracapsular (other than 66840, 66850, 66852)
CPT-4	66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage
CPT-4	66983	Intracapsular cataract extraction with insertion of intraocular lens prosthesis (1 stage procedure)
CPT-4	66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification)
ICD-10-CM	H25.011	Cortical age-related cataract, right eye
ICD-10-CM	H25.012	Cortical age-related cataract, left eye
ICD-10-CM	H25.013	Cortical age-related cataract, bilateral
ICD-10-CM	H25.019	Cortical age-related cataract, unspecified eye
ICD-10-CM	H25.031	Anterior subcapsular polar age-related cataract, right eye
ICD-10-CM	H25.032	Anterior subcapsular polar age-related cataract, left eye
ICD-10-CM	H25.033	Anterior subcapsular polar age-related cataract, bilateral
ICD-10-CM	H25.039	Anterior subcapsular polar age-related cataract, unspecified eye
ICD-10-CM	H25.041	Posterior subcapsular polar age-related cataract, right eye
ICD-10-CM	H25.042	Posterior subcapsular polar age-related cataract, left eye
ICD-10-CM	H25.043	Posterior subcapsular polar age-related cataract, bilateral
ICD-10-CM	H25.049	Posterior subcapsular polar age-related cataract, unspecified eye

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
ICD-10-CM	H25.091	Other age-related incipient cataract, right eye
ICD-10-CM	H25.092	Other age-related incipient cataract, left eye
ICD-10-CM	H25.093	Other age-related incipient cataract, bilateral
ICD-10-CM	H25.099	Other age-related incipient cataract, unspecified eye
ICD-10-CM	H25.10	Age-related nuclear cataract, unspecified eye
ICD-10-CM	H25.11	Age-related nuclear cataract, right eye
ICD-10-CM	H25.12	Age-related nuclear cataract, left eye
ICD-10-CM	H25.13	Age-related nuclear cataract, bilateral
ICD-10-CM	H25.20	Age-related cataract, morgagnian type, unspecified eye
ICD-10-CM	H25.21	Age-related cataract, morgagnian type, right eye
ICD-10-CM	H25.22	Age-related cataract, morgagnian type, left eye
ICD-10-CM	H25.23	Age-related cataract, morgagnian type, bilateral
ICD-10-CM	H25.811	Combined forms of age-related cataract, right eye
ICD-10-CM	H25.812	Combined forms of age-related cataract, left eye
ICD-10-CM	H25.813	Combined forms of age-related cataract, bilateral
ICD-10-CM	H25.819	Combined forms of age-related cataract, unspecified eye
ICD-10-CM	H25.89	Other age-related cataract
ICD-10-CM	H25.9	Unspecified age-related cataract
ICD-10-CM	H26.101	Unspecified traumatic cataract, right eye
ICD-10-CM	H26.102	Unspecified traumatic cataract, left eye
ICD-10-CM	H26.103	Unspecified traumatic cataract, bilateral
ICD-10-CM	H26.109	Unspecified traumatic cataract, unspecified eye
ICD-10-CM	H26.111	Localized traumatic opacities, right eye
ICD-10-CM	H26.112	Localized traumatic opacities, left eye
ICD-10-CM	H26.113	Localized traumatic opacities, bilateral
ICD-10-CM	H26.119	Localized traumatic opacities, unspecified eye
ICD-10-CM	H26.121	Partially resolved traumatic cataract, right eye
ICD-10-CM	H26.122	Partially resolved traumatic cataract, left eye
ICD-10-CM	H26.123	Partially resolved traumatic cataract, bilateral
ICD-10-CM	H26.129	Partially resolved traumatic cataract, unspecified eye
ICD-10-CM	H26.131	Total traumatic cataract, right eye
ICD-10-CM	H26.132	Total traumatic cataract, left eye
ICD-10-CM	H26.133	Total traumatic cataract, bilateral
ICD-10-CM	H26.139	Total traumatic cataract, unspecified eye
ICD-10-CM	H26.20	Unspecified complicated cataract
ICD-10-CM	H26.211	Cataract with neovascularization, right eye
ICD-10-CM	H26.212	Cataract with neovascularization, left eye
ICD-10-CM	H26.213	Cataract with neovascularization, bilateral
ICD-10-CM	H26.219	Cataract with neovascularization, unspecified eye
ICD-10-CM	H26.221	Cataract secondary to ocular disorders (degenerative) (inflammatory), right eye
ICD-10-CM	H26.222	Cataract secondary to ocular disorders (degenerative) (inflammatory), left eye
ICD-10-CM	H26.223	Cataract secondary to ocular disorders (degenerative) (inflammatory), bilateral
ICD-10-CM	H26.229	Cataract secondary to ocular disorders (degenerative) (inflammatory), unspecified eye
ICD-10-CM	H26.231	Glaucomatous flecks (subcapsular), right eye
ICD-10-CM	H26.232	Glaucomatous flecks (subcapsular), left eye
ICD-10-CM	H26.233	Glaucomatous flecks (subcapsular), bilateral
ICD-10-CM	H26.239	Glaucomatous flecks (subcapsular), unspecified eye

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Code Type	Code	Description
ICD-10-CM	H26.30	Drug-induced cataract, unspecified eye
ICD-10-CM	H26.31	Drug-induced cataract, right eye
ICD-10-CM	H26.32	Drug-induced cataract, left eye
ICD-10-CM	H26.33	Drug-induced cataract, bilateral
ICD-10-CM	H26.40	Unspecified secondary cataract
ICD-10-CM	H26.491	Other secondary cataract, right eye
ICD-10-CM	H26.492	Other secondary cataract, left eye
ICD-10-CM	H26.493	Other secondary cataract, bilateral
ICD-10-CM	H26.499	Other secondary cataract, unspecified eye
ICD-10-CM	H26.8	Other specified cataract
ICD-10-CM	H26.9	Unspecified cataract
ICD-10-CM	H28	Cataract in diseases classified elsewhere
ICD-9-CM	13.41	Phacoemulsification and aspiration of cataract
ICD-9-CM	13.42	Mechanical phacofragmentation and aspiration of cataract by posterior route
ICD-9-CM	13.43	Mechanical phacofragmentation and other aspiration of cataract
ICD-9-CM	13.6	Other cataract extraction
ICD-9-CM	13.64	Discission of secondary membrane (after cataract)
ICD-9-CM	13.65	Excision of secondary membrane (after cataract)
ICD-9-CM	13.66	Mechanical fragmentation of secondary membrane (after cataract)
ICD-9-CM	13.69	Other cataract extraction
ICD-10-PCS	08DJ3ZZ	Extraction of Right Lens, Percutaneous Approach
ICD-10-PCS	08DK3ZZ	Extraction of Left Lens, Percutaneous Approach
ICD-10-PCS	085J3ZZ	Destruction of Right Lens, Percutaneous Approach
ICD-10-PCS	085K3ZZ	Destruction of Left Lens, Percutaneous Approach
ICD-10-PCS	08BJ3ZZ	Excision of Right Lens, Percutaneous Approach
ICD-10-PCS	08BK3ZZ	Excision of Left Lens, Percutaneous Approach
CPT-4	66820	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); stab incision technique (Ziegler or Wheeler knife)
CPT-4	66821	Discission of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid); laser surgery (eg, YAG laser) (1 or more stages)
CPT-4	66825	Repositioning of intraocular lens prosthesis, requiring an incision (separate procedure)
CPT-4	66830	Removal of secondary membranous cataract (opacified posterior lens capsule and/or anterior hyaloid) with corneo-scleral section, with or without iridectomy (iridocapsulotomy, iridocapsulectomy)
CPT-4	66840	Removal of lens material; aspiration technique, 1 or more stages
CPT-4	66850	Removal of lens material; phacofragmentation technique (mechanical or ultrasonic) (eg, phacoemulsification), with aspiration
CPT-4	66852	Removal of lens material; pars plana approach, with or without vitrectomy
CPT-4	66920	Removal of lens material; intracapsular
CPT-4	66930	Removal of lens material; intracapsular, for dislocated lens

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
CPT-4	66940	Removal of lens material; extracapsular (other than 66840, 66850, 66852)
CPT-4	66982	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1-stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification), complex, requiring devices or techniques not generally used in routine cataract surgery (eg, iris expansion device, suture support for intraocular lens, or primary posterior capsulorrhexis) or performed on patients in the amblyogenic developmental stage
CPT-4	66983	Intracapsular cataract extraction with insertion of intraocular lens prosthesis (1 stage procedure)
CPT-4	66984	Extracapsular cataract removal with insertion of intraocular lens prosthesis (1 stage procedure), manual or mechanical technique (eg, irrigation and aspiration or phacoemulsification)

Glaucoma		
ICD-9-CM	365	Glaucoma
ICD-9-CM	365.0	Borderline glaucoma (glaucoma suspect)
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	365.05	Open angle with borderline findings, high risk
ICD-9-CM	365.06	Primary angle closure without glaucoma damage
ICD-9-CM	365.1	Open-angle glaucoma
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	365.14	Open-angle glaucoma of childhood
ICD-9-CM	365.15	Residual stage of open angle glaucoma
ICD-9-CM	365.2	Primary angle-closure 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	365.3	Corticosteroid-induced glaucoma
ICD-9-CM	365.31	Corticosteroid-induced glaucoma, glaucomatous stage
ICD-9-CM	365.32	Corticosteroid-induced glaucoma, residual stage
ICD-9-CM	365.4	Glaucoma associated with congenital anomalies, dystrophies, and systemic syndromes
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	365.44	Glaucoma associated with systemic syndromes
ICD-9-CM	365.5	Glaucoma associated with disorders of the lens
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

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Code Type	Code	Description
ICD-9-CM	365.6	Glaucoma associated with other ocular 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	365.7	Glaucoma stage
ICD-9-CM	365.70	Glaucoma stage, unspecified
ICD-9-CM	365.71	Mild stage glaucoma
ICD-9-CM	365.72	Moderate stage glaucoma
ICD-9-CM	365.73	Severe stage glaucoma
ICD-9-CM	365.74	Indeterminate stage glaucoma
ICD-9-CM	365.8	Other specified forms of glaucoma
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-10-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	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	H40.021	Open angle with borderline findings, high risk, right eye
ICD-10-CM	H40.022	Open angle with borderline findings, high risk, left eye
ICD-10-CM	H40.023	Open angle with borderline findings, high risk, bilateral
ICD-10-CM	H40.029	Open angle with borderline findings, high 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	H40.061	Primary angle closure without glaucoma damage, right eye
ICD-10-CM	H40.062	Primary angle closure without glaucoma damage, left eye
ICD-10-CM	H40.063	Primary angle closure without glaucoma damage, bilateral
ICD-10-CM	H40.069	Primary angle closure without glaucoma damage, 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

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
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	H40.1210	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

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Code Type	Code	Description
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	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

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Code Type	Code	Description
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	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	H40.32X4	Glaucoma secondary to eye trauma, left eye, indeterminate 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	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

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
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	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

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
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	Q15.0	Congenital glaucoma
Diminished or Decreased Visual Acuity		
ICD-9-CM	368	Visual disturbances
ICD-9-CM	368.11	Sudden visual loss
ICD-9-CM	368.12	Transient visual loss
ICD-9-CM	368.8	Other specified visual disturbances
ICD-9-CM	368.9	Unspecified visual disturbance
ICD-10-CM	H53.121	Transient visual loss, right eye
ICD-10-CM	H53.122	Transient visual loss, left eye
ICD-10-CM	H53.123	Transient visual loss, bilateral
ICD-10-CM	H53.129	Transient visual loss, unspecified eye
ICD-10-CM	H53.131	Sudden visual loss, right eye
ICD-10-CM	H53.132	Sudden visual loss, left eye
ICD-10-CM	H53.133	Sudden visual loss, bilateral
ICD-10-CM	H53.139	Sudden visual loss, unspecified eye
ICD-10-CM	H53.8	Other visual disturbances
ICD-10-CM	H53.9	Unspecified visual disturbance
Blindness		
ICD-9-CM	369	Blindness and low vision
ICD-9-CM	369.0	Profound impairment, both eyes
ICD-9-CM	369.00	Blindness of both eyes, impairment level not further specified
ICD-9-CM	369.01	Better eye: total vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.02	Better eye: near-total vision impairment; lesser eye: not further specified
ICD-9-CM	369.03	Better eye: near-total vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.04	Better eye: near-total vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.05	Better eye: profound vision impairment; lesser eye: not further specified
ICD-9-CM	369.06	Better eye: profound vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.07	Better eye: profound vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.08	Better eye: profound vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.1	Moderate or severe impairment, better eye; profound vision impairment of lesser eye
ICD-9-CM	369.10	Profound, moderate or severe vision impairment, not further specified
ICD-9-CM	369.11	Better eye: severe vision impairment; lesser eye: blind, not further specified
ICD-9-CM	369.12	Better eye: severe vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.13	Better eye: severe vision impairment; lesser eye: near-total vision impairment
ICD-9-CM	369.14	Better eye: severe vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.15	Better eye: moderate vision impairment; lesser eye: blind, not further specified
ICD-9-CM	369.16	Better eye: moderate vision impairment; lesser eye: total vision impairment
ICD-9-CM	369.17	Better eye: moderate vision impairment; lesser eye: near-total vision impairment

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Appendix H: List of Diagnosis and Procedure Codes Used to Define Inclusion and Exclusion Criteria in this Request

Code Type	Code	Description
ICD-9-CM	369.18	Better eye: moderate vision impairment; lesser eye: profound vision impairment
ICD-9-CM	369.2	Moderate or severe vision impairment, both eyes
ICD-9-CM	369.20	Vision impairment, both eyes, impairment level not further specified
ICD-9-CM	369.21	Better eye: severe vision impairment; lesser eye; impairment not further specified
ICD-9-CM	369.22	Better eye: severe vision impairment; lesser eye: severe vision impairment
ICD-9-CM	369.23	Better eye: moderate vision impairment; lesser eye: impairment not further specified
ICD-9-CM	369.24	Better eye: moderate vision impairment; lesser eye: severe vision impairment
ICD-9-CM	369.25	Better eye: moderate vision impairment; lesser eye: moderate vision impairment
ICD-9-CM	369.3	Unqualified visual loss, both eyes
ICD-9-CM	369.4	Legal blindness, as defined in USA
ICD-9-CM	369.6	Profound vision impairment, one eye
ICD-9-CM	369.60	Impairment level not further specified
ICD-9-CM	369.61	One eye: total vision impairment; other eye: not specified
ICD-9-CM	369.62	One eye: total vision impairment; other eye: near-normal vision
ICD-9-CM	369.63	One eye: total vision impairment; other eye: normal vision
ICD-9-CM	369.64	One eye: near-total vision impairment; other eye: vision not specified
ICD-9-CM	369.65	One eye: near-total vision impairment; other eye: near-normal vision
ICD-9-CM	369.66	One eye: near-total vision impairment; other eye: normal vision
ICD-9-CM	369.67	One eye: profound vision impairment; other eye: vision not specified
ICD-9-CM	369.68	One eye: profound vision impairment; other eye: near-normal vision
ICD-9-CM	369.69	One eye: profound vision impairment; other eye: normal vision
ICD-9-CM	369.7	Moderate or severe vision impairment, one eye
ICD-9-CM	369.70	Low vision, one eye, not otherwise specified
ICD-9-CM	369.71	One eye: severe vision impairment; other eye: vision not specified
ICD-9-CM	369.72	One eye: severe vision impairment; other eye: near-normal vision
ICD-9-CM	369.73	One eye: severe vision impairment; other eye: normal vision
ICD-9-CM	369.74	One eye: moderate vision impairment; other eye: vision not specified
ICD-9-CM	369.75	One eye: moderate vision impairment; other eye: near-normal vision
ICD-9-CM	369.76	One eye: moderate vision impairment; other eye: normal vision
ICD-9-CM	369.8	Unqualified visual loss, one eye
ICD-9-CM	369.9	Unspecified visual loss
ICD-10-CM	H54.0	Blindness, both eyes
ICD-10-CM	H54.10	Blindness, one eye, low vision other eye, unspecified eyes
ICD-10-CM	H54.11	Blindness, right eye, low vision left eye
ICD-10-CM	H54.12	Blindness, left eye, low vision right eye
ICD-10-CM	H54.2	Low vision, both eyes
ICD-10-CM	H54.3	Unqualified visual loss, both eyes
ICD-10-CM	H54.8	Legal blindness, as defined in USA
ICD-10-CM	H54.40	Blindness, one eye, unspecified eye
ICD-10-CM	H54.41	Blindness, right eye, normal vision left eye
ICD-10-CM	H54.42	Blindness, left eye, normal vision right eye
ICD-10-CM	H54.50	Low vision, one eye, unspecified eye
ICD-10-CM	H54.51	Low vision, right eye, normal vision left eye
ICD-10-CM	H54.52	Low vision, left eye, normal vision right eye
ICD-10-CM	H54.60	Unqualified visual loss, one eye, unspecified
ICD-10-CM	H54.61	Unqualified visual loss, right eye, normal vision left eye
ICD-10-CM	H54.62	Unqualified visual loss, left eye, normal vision right eye
ICD-10-CM	H54.7	Unspecified visual loss

Appendix I: List of Generic Names Used to Define Exclusion Criteria in this Request

Generic Name

Glaucoma Treatment

ACETYLCHOLINE CHLORIDE
APRACLONIDINE HCL
APRACLONIDINE HCL
BETAXOLOL HCL
BETAXOLOL HCL
BIMATOPROST
BIMATOPROST
BRIMONIDINE TARTRATE
BRIMONIDINE TARTRATE
BRIMONIDINE TARTRATE/TIMOLOL MALEATE
BRINZOLAMIDE
BRINZOLAMIDE/BRIMONIDINE TARTRATE
CARBACHOL
CARBACHOL
CARTEOLOL HCL
DORZOLAMIDE HCL
DORZOLAMIDE HCL
DORZOLAMIDE HCL/TIMOLOL MALEATE
DORZOLAMIDE HCL/TIMOLOL MALEATE
DORZOLAMIDE HCL/TIMOLOL MALEATE/PF
ECHOTHIOPHATE IODIDE
LATANOPROST
LATANOPROST
LEVOBUNOLOL HCL
LEVOBUNOLOL HCL
METIPRANOLOL
METIPRANOLOL
PILOCARPINE HCL
PILOCARPINE HCL
PILOCARPINE HCL
TAFLUPROST/PF
TIMOLOL
TIMOLOL MALEATE
TIMOLOL MALEATE
TIMOLOL MALEATE
TIMOLOL MALEATE
TIMOLOL MALEATE/PF
TRAVOPROST
TRAVOPROST (BENZALKONIUM)
UNOPROSTONE ISOPROPYL

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
Blepharitis		
ICD-9-CM	373.0	Blepharitis
ICD-9-CM	373.00	Blepharitis, unspecified
ICD-9-CM	373.01	Ulcerative blepharitis
ICD-9-CM	373.02	Squamous blepharitis
ICD-10-CM	H01.001	Unspecified blepharitis right upper eyelid
ICD-10-CM	H01.002	Unspecified blepharitis right lower eyelid
ICD-10-CM	H01.003	Unspecified blepharitis right eye, unspecified eyelid
ICD-10-CM	H01.004	Unspecified blepharitis left upper eyelid
ICD-10-CM	H01.005	Unspecified blepharitis left lower eyelid
ICD-10-CM	H01.006	Unspecified blepharitis left eye, unspecified eyelid
ICD-10-CM	H01.009	Unspecified blepharitis unspecified eye, unspecified eyelid
ICD-10-CM	H01.011	Ulcerative blepharitis right upper eyelid
ICD-10-CM	H01.012	Ulcerative blepharitis right lower eyelid
ICD-10-CM	H01.013	Ulcerative blepharitis right eye, unspecified eyelid
ICD-10-CM	H01.014	Ulcerative blepharitis left upper eyelid
ICD-10-CM	H01.015	Ulcerative blepharitis left lower eyelid
ICD-10-CM	H01.016	Ulcerative blepharitis left eye, unspecified eyelid
ICD-10-CM	H01.019	Ulcerative blepharitis unspecified eye, unspecified eyelid
ICD-10-CM	H01.021	Squamous blepharitis right upper eyelid
ICD-10-CM	H01.022	Squamous blepharitis right lower eyelid
ICD-10-CM	H01.023	Squamous blepharitis right eye, unspecified eyelid
ICD-10-CM	H01.024	Squamous blepharitis left upper eyelid
ICD-10-CM	H01.025	Squamous blepharitis left lower eyelid
ICD-10-CM	H01.026	Squamous blepharitis left eye, unspecified eyelid
ICD-10-CM	H01.029	Squamous blepharitis unspecified eye, unspecified eyelid
Cardiovascular Disease		
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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	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-10-CM	I10	Essential (primary) hypertension
ICD-10-CM	I16.9	Hypertensive crisis, unspecified
ICD-10-CM	I11.9	Hypertensive heart disease without heart failure
ICD-10-CM	I11.0	Hypertensive heart disease with heart failure
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	I12.0	Hypertensive chronic kidney disease with stage 5 chronic kidney disease or end stage renal 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	I13.0	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	I13.11	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	I15.8	Other secondary hypertension
ICD-10-CM	N26.2	Page kidney
ICD-10-CM	I15.1	Hypertension secondary to other renal disorders
ICD-10-CM	I15.2	Hypertension secondary to endocrine disorders
ICD-10-CM	I15.9	Secondary hypertension, unspecified
ICD-10-CM	I16.0	Hypertensive urgency

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	I16.1	Hypertensive emergency
ICD-9-CM	398	Other rheumatic heart disease
ICD-9-CM	398.0	Rheumatic myocarditis
ICD-9-CM	398.9	Other and unspecified rheumatic heart diseases
ICD-9-CM	398.90	Unspecified rheumatic heart disease
ICD-9-CM	398.91	Rheumatic heart failure (congestive)
ICD-9-CM	398.99	Other and unspecified rheumatic heart diseases
ICD-9-CM	393	Chronic rheumatic pericarditis
ICD-9-CM	397	Diseases of other endocardial structures
ICD-9-CM	397.0	Diseases of tricuspid valve
ICD-9-CM	397.1	Rheumatic diseases of pulmonary valve
ICD-9-CM	397.9	Rheumatic diseases of endocardium, valve unspecified
ICD-10-CM	I09	Other rheumatic heart diseases
ICD-10-CM	I09.0	Rheumatic myocarditis
ICD-10-CM	I09.1	Rheumatic diseases of endocardium, valve unspecified
ICD-10-CM	I09.2	Chronic rheumatic pericarditis
ICD-10-CM	I09.8	Other specified rheumatic heart diseases
ICD-10-CM	I09.81	Rheumatic heart failure
ICD-10-CM	I09.89	Other specified rheumatic heart diseases
ICD-10-CM	I09.9	Rheumatic heart disease, unspecified
ICD-10-CM	I07.0	Rheumatic tricuspid stenosis
ICD-10-CM	I07.1	Rheumatic tricuspid insufficiency
ICD-10-CM	I07.2	Rheumatic tricuspid stenosis and insufficiency
ICD-10-CM	I07.8	Other rheumatic tricuspid valve diseases
ICD-10-CM	I07.9	Rheumatic tricuspid valve disease, unspecified
ICD-10-CM	I08.1	Rheumatic disorders of both mitral and tricuspid valves
ICD-10-CM	I08.2	Rheumatic disorders of both aortic and tricuspid valves
ICD-10-CM	I08.3	Combined rheumatic disorders of mitral, aortic and tricuspid valves
ICD-10-CM	I08.8	Other rheumatic multiple valve diseases
ICD-10-CM	I08.9	Rheumatic multiple valve disease, unspecified
ICD-9-CM	410	Acute myocardial infarction
ICD-9-CM	410.0	Acute myocardial infarction of anterolateral wall
ICD-9-CM	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	410.1	Acute myocardial infarction of other anterior wall
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	410.2	Acute myocardial infarction of inferolateral wall
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	410.3	Acute myocardial infarction of inferoposterior wall
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	410.4	Acute myocardial infarction of other inferior wall
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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-9-CM	410.5	Acute myocardial infarction of other lateral wall
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	410.6	Acute myocardial infarction, true posterior wall infarction
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	410.7	Acute myocardial infarction, subendocardial infarction
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	410.8	Acute myocardial infarction of other specified sites
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	410.9	Acute myocardial infarction, unspecified site
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	Other acute and subacute forms of ischemic heart disease
ICD-9-CM	411.0	Postmyocardial infarction syndrome
ICD-9-CM	411.1	Intermediate coronary syndrome
ICD-9-CM	411.8	Other acute and subacute forms of ischemic heart disease
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	Angina pectoris
ICD-9-CM	413.0	Angina decubitus
ICD-9-CM	413.1	Prinzmetal angina
ICD-9-CM	413.9	Other and unspecified angina pectoris
ICD-9-CM	414	Other forms of chronic ischemic heart disease
ICD-9-CM	414.0	Coronary atherosclerosis
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	414.1	Aneurysm and dissection of heart
ICD-9-CM	414.10	Aneurysm of heart
ICD-9-CM	414.11	Aneurysm of coronary vessels
ICD-9-CM	414.12	Dissection of coronary artery
ICD-9-CM	414.19	Other aneurysm of heart
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

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Code Type	Code	Description
ICD-9-CM	430	Subarachnoid hemorrhage
ICD-9-CM	431	Intracerebral hemorrhage
ICD-9-CM	432	Other and unspecified intracranial hemorrhage
ICD-9-CM	432.0	Nontraumatic extradural hemorrhage
ICD-9-CM	432.1	Subdural hemorrhage
ICD-9-CM	432.9	Unspecified intracranial hemorrhage
ICD-9-CM	433	Occlusion and stenosis of precerebral arteries
ICD-9-CM	433.0	Occlusion and stenosis of basilar artery
ICD-9-CM	433.00	Occlusion and stenosis of basilar artery without mention of cerebral infarction
ICD-9-CM	433.01	Occlusion and stenosis of basilar artery with cerebral infarction
ICD-9-CM	433.1	Occlusion and stenosis of carotid artery
ICD-9-CM	433.10	Occlusion and stenosis of carotid artery without mention of cerebral infarction
ICD-9-CM	433.11	Occlusion and stenosis of carotid artery with cerebral infarction
ICD-9-CM	433.2	Occlusion and stenosis of vertebral artery
ICD-9-CM	433.20	Occlusion and stenosis of vertebral artery without mention of cerebral infarction
ICD-9-CM	433.21	Occlusion and stenosis of vertebral artery with cerebral infarction
ICD-9-CM	433.3	Occlusion and stenosis of multiple and bilateral precerebral arteries
ICD-9-CM	433.30	Occlusion and stenosis of multiple and bilateral precerebral arteries without mention of cerebral infarction
ICD-9-CM	433.31	Occlusion and stenosis of multiple and bilateral precerebral arteries with cerebral infarction
ICD-9-CM	433.8	Occlusion and stenosis of other specified precerebral artery
ICD-9-CM	433.80	Occlusion and stenosis of other specified precerebral artery without mention of cerebral infarction
ICD-9-CM	433.81	Occlusion and stenosis of other specified precerebral artery with cerebral infarction
ICD-9-CM	433.9	Occlusion and stenosis of unspecified precerebral artery
ICD-9-CM	433.90	Occlusion and stenosis of unspecified precerebral artery without mention of cerebral infarction
ICD-9-CM	433.91	Occlusion and stenosis of unspecified precerebral artery with cerebral infarction
ICD-9-CM	434	Occlusion of cerebral arteries
ICD-9-CM	434.0	Cerebral thrombosis
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	434.1	Cerebral embolism
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	434.9	Unspecified cerebral artery occlusion
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	436	Acute, but ill-defined, cerebrovascular disease
ICD-9-CM	996.03	Mechanical complication due to coronary bypass graft
ICD-9-CM	V45.81	Postprocedural aortocoronary bypass status
ICD-9-CM	V45.82	Postprocedural percutaneous transluminal coronary angioplasty status
ICD-9-CM	440	Atherosclerosis
ICD-9-CM	440.0	Atherosclerosis of aorta
ICD-9-CM	440.1	Atherosclerosis of renal artery
ICD-9-CM	440.2	Atherosclerosis of native arteries of the extremities
ICD-9-CM	440.20	Atherosclerosis of native arteries of the extremities, unspecified
ICD-9-CM	440.21	Atherosclerosis of native arteries of the extremities with intermittent claudication
ICD-9-CM	440.22	Atherosclerosis of native arteries of the extremities with rest pain
ICD-9-CM	440.23	Atherosclerosis of native arteries of the extremities with ulceration
ICD-9-CM	440.24	Atherosclerosis of native arteries of the extremities with gangrene
ICD-9-CM	440.29	Other atherosclerosis of native arteries of the extremities

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Code Type	Code	Description
ICD-9-CM	440.3	Atherosclerosis of bypass graft of extremities
ICD-9-CM	440.30	Atherosclerosis of unspecified bypass graft of extremities
ICD-9-CM	440.31	Atherosclerosis of autologous vein bypass graft of extremities
ICD-9-CM	440.32	Atherosclerosis of nonautologous biological bypass graft of extremities
ICD-9-CM	440.4	Chronic total occlusion of artery of the extremities
ICD-9-CM	440.8	Atherosclerosis of other specified arteries
ICD-9-CM	440.9	Generalized and unspecified atherosclerosis
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	420	Acute pericarditis
ICD-9-CM	420.0	Acute pericarditis in diseases classified elsewhere
ICD-9-CM	420.9	Other and unspecified acute pericarditis
ICD-9-CM	420.90	Unspecified acute pericarditis
ICD-9-CM	420.91	Acute idiopathic pericarditis
ICD-9-CM	420.99	Other acute pericarditis
ICD-9-CM	421	Acute and subacute endocarditis
ICD-9-CM	421.0	Acute and subacute bacterial endocarditis
ICD-9-CM	421.1	Acute and subacute infective endocarditis in diseases classified elsewhere
ICD-9-CM	421.9	Unspecified acute endocarditis
ICD-9-CM	422	Acute myocarditis
ICD-9-CM	422.0	Acute myocarditis in diseases classified elsewhere
ICD-9-CM	422.9	Other and unspecified acute myocarditis
ICD-9-CM	422.90	Unspecified acute myocarditis
ICD-9-CM	422.91	Idiopathic myocarditis
ICD-9-CM	422.92	Septic myocarditis
ICD-9-CM	422.93	Toxic myocarditis
ICD-9-CM	422.99	Other acute myocarditis
ICD-9-CM	423	Other diseases of pericardium
ICD-9-CM	423.0	Hemopericardium
ICD-9-CM	423.1	Adhesive pericarditis
ICD-9-CM	423.2	Constrictive pericarditis
ICD-9-CM	423.3	Cardiac tamponade
ICD-9-CM	423.8	Other specified diseases of pericardium
ICD-9-CM	423.9	Unspecified disease of pericardium
ICD-9-CM	424	Other diseases of endocardium
ICD-9-CM	424.0	Mitral valve disorders
ICD-9-CM	424.1	Aortic valve disorders
ICD-9-CM	424.2	Tricuspid valve disorders, specified as nonrheumatic
ICD-9-CM	424.3	Pulmonary valve disorders
ICD-9-CM	424.9	Endocarditis, valve unspecified
ICD-9-CM	424.90	Endocarditis, valve unspecified, unspecified cause
ICD-9-CM	424.91	Endocarditis in diseases classified elsewhere
ICD-9-CM	424.99	Other endocarditis, valve unspecified
ICD-9-CM	425	Cardiomyopathy
ICD-9-CM	425.0	Endomyocardial fibrosis
ICD-9-CM	425.1	Hypertrophic cardiomyopathy
ICD-9-CM	425.11	Hypertrophic obstructive cardiomyopathy
ICD-9-CM	425.18	Other hypertrophic cardiomyopathy
ICD-9-CM	425.2	Obscure cardiomyopathy of Africa
ICD-9-CM	425.3	Endocardial fibroelastosis

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Code Type	Code	Description
ICD-9-CM	425.4	Other primary cardiomyopathies
ICD-9-CM	425.5	Alcoholic cardiomyopathy
ICD-9-CM	425.7	Nutritional and metabolic cardiomyopathy
ICD-9-CM	425.8	Cardiomyopathy in other diseases classified elsewhere
ICD-9-CM	425.9	Unspecified secondary cardiomyopathy
ICD-9-CM	426	Conduction disorders
ICD-9-CM	426.0	Atrioventricular block, complete
ICD-9-CM	426.1	Atrioventricular block, other and unspecified
ICD-9-CM	426.10	Unspecified atrioventricular block
ICD-9-CM	426.11	First degree atrioventricular block
ICD-9-CM	426.12	Mobitz (type) II atrioventricular block
ICD-9-CM	426.13	Other second degree atrioventricular block
ICD-9-CM	426.2	Left bundle branch hemiblock
ICD-9-CM	426.3	Other left bundle branch block
ICD-9-CM	426.4	Right bundle branch block
ICD-9-CM	426.5	Bundle branch block, other and unspecified
ICD-9-CM	426.50	Unspecified bundle branch block
ICD-9-CM	426.51	Right bundle branch block and left posterior fascicular block
ICD-9-CM	426.52	Right bundle branch block and left anterior fascicular block
ICD-9-CM	426.53	Other bilateral bundle branch block
ICD-9-CM	426.54	Trifascicular block
ICD-9-CM	426.6	Other heart block
ICD-9-CM	426.7	Anomalous atrioventricular excitation
ICD-9-CM	426.8	Other specified conduction disorders
ICD-9-CM	426.81	Lown-Ganong-Levine syndrome
ICD-9-CM	426.82	Long QT syndrome
ICD-9-CM	426.89	Other specified conduction disorder
ICD-9-CM	426.9	Unspecified conduction disorder
ICD-9-CM	427	Cardiac dysrhythmias
ICD-9-CM	427.0	Paroxysmal supraventricular tachycardia
ICD-9-CM	427.1	Paroxysmal ventricular tachycardia
ICD-9-CM	427.2	Unspecified paroxysmal tachycardia
ICD-9-CM	427.3	Atrial fibrillation and flutter
ICD-9-CM	427.31	Atrial fibrillation
ICD-9-CM	427.32	Atrial flutter
ICD-9-CM	427.4	Ventricular fibrillation and flutter
ICD-9-CM	427.41	Ventricular fibrillation
ICD-9-CM	427.42	Ventricular flutter
ICD-9-CM	427.5	Cardiac arrest
ICD-9-CM	427.6	Premature beats
ICD-9-CM	427.60	Unspecified premature beats
ICD-9-CM	427.61	Supraventricular premature beats
ICD-9-CM	427.69	Other premature beats
ICD-9-CM	427.8	Other specified cardiac dysrhythmias
ICD-9-CM	427.81	Sinoatrial node dysfunction
ICD-9-CM	427.89	Other specified cardiac dysrhythmias
ICD-9-CM	427.9	Unspecified cardiac dysrhythmia
ICD-9-CM	428	Heart failure
ICD-9-CM	428.0	Congestive heart failure, unspecified
ICD-9-CM	428.1	Left heart failure
ICD-9-CM	428.2	Systolic heart failure

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Code Type	Code	Description
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	428.3	Diastolic 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	428.4	Combined systolic and 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	429	Ill-defined descriptions and complications of heart disease
ICD-9-CM	429.0	Unspecified myocarditis
ICD-9-CM	429.1	Myocardial degeneration
ICD-9-CM	429.2	Unspecified cardiovascular disease
ICD-9-CM	429.3	Cardiomegaly
ICD-9-CM	429.4	Functional disturbances following cardiac surgery
ICD-9-CM	429.5	Rupture of chordae tendineae
ICD-9-CM	429.6	Rupture of papillary muscle
ICD-9-CM	429.7	Certain sequelae of myocardial infarction, not elsewhere classified
ICD-9-CM	429.71	Acquired cardiac septal defect
ICD-9-CM	429.79	Other certain sequelae of myocardial infarction, not elsewhere classified
ICD-9-CM	429.8	Other ill-defined heart diseases
ICD-9-CM	429.81	Other disorders of papillary muscle
ICD-9-CM	429.82	Hyperkinetic heart disease
ICD-9-CM	429.83	Takotsubo syndrome
ICD-9-CM	429.89	Other ill-defined heart disease
ICD-9-CM	429.9	Unspecified heart disease
ICD-10-CM	I11.0	Hypertensive heart disease with heart failure
ICD-10-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	I21.9	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

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Code Type	Code	Description
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	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

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Code Type	Code	Description
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	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	I30.0	Acute nonspecific idiopathic pericarditis
ICD-10-CM	I30.1	Infective pericarditis
ICD-10-CM	I30.8	Other forms of acute pericarditis
ICD-10-CM	I30.9	Acute pericarditis, unspecified
ICD-10-CM	I31.0	Chronic adhesive pericarditis
ICD-10-CM	I31.1	Chronic constrictive pericarditis
ICD-10-CM	I31.2	Hemopericardium, not elsewhere classified
ICD-10-CM	I31.3	Pericardial effusion (noninflammatory)
ICD-10-CM	I31.4	Cardiac tamponade
ICD-10-CM	I31.8	Other specified diseases of pericardium
ICD-10-CM	I31.9	Disease of pericardium, unspecified
ICD-10-CM	I32	Pericarditis in diseases classified elsewhere
ICD-10-CM	I33.0	Acute and subacute infective endocarditis

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Code Type	Code	Description
ICD-10-CM	I33.9	Acute and subacute endocarditis, unspecified
ICD-10-CM	I34.0	Nonrheumatic mitral (valve) insufficiency
ICD-10-CM	I34.1	Nonrheumatic mitral (valve) prolapse
ICD-10-CM	I34.2	Nonrheumatic mitral (valve) stenosis
ICD-10-CM	I34.8	Other nonrheumatic mitral valve disorders
ICD-10-CM	I34.9	Nonrheumatic mitral valve disorder, unspecified
ICD-10-CM	I35.0	Nonrheumatic aortic (valve) stenosis
ICD-10-CM	I35.1	Nonrheumatic aortic (valve) insufficiency
ICD-10-CM	I35.2	Nonrheumatic aortic (valve) stenosis with insufficiency
ICD-10-CM	I35.8	Other nonrheumatic aortic valve disorders
ICD-10-CM	I35.9	Nonrheumatic aortic valve disorder, unspecified
ICD-10-CM	I36.0	Nonrheumatic tricuspid (valve) stenosis
ICD-10-CM	I36.1	Nonrheumatic tricuspid (valve) insufficiency
ICD-10-CM	I36.2	Nonrheumatic tricuspid (valve) stenosis with insufficiency
ICD-10-CM	I36.8	Other nonrheumatic tricuspid valve disorders
ICD-10-CM	I36.9	Nonrheumatic tricuspid valve disorder, unspecified
ICD-10-CM	I37.0	Nonrheumatic pulmonary valve stenosis
ICD-10-CM	I37.1	Nonrheumatic pulmonary valve insufficiency
ICD-10-CM	I37.2	Nonrheumatic pulmonary valve stenosis with insufficiency
ICD-10-CM	I37.8	Other nonrheumatic pulmonary valve disorders
ICD-10-CM	I37.9	Nonrheumatic pulmonary valve disorder, unspecified
ICD-10-CM	I38	Endocarditis, valve unspecified
ICD-10-CM	I39	Endocarditis and heart valve disorders in diseases classified elsewhere
ICD-10-CM	I40.0	Infective myocarditis
ICD-10-CM	I40.1	Isolated myocarditis
ICD-10-CM	I40.8	Other acute myocarditis
ICD-10-CM	I40.9	Acute myocarditis, unspecified
ICD-10-CM	I41	Myocarditis in diseases classified elsewhere
ICD-10-CM	I42.0	Dilated cardiomyopathy
ICD-10-CM	I42.1	Obstructive hypertrophic cardiomyopathy
ICD-10-CM	I42.2	Other hypertrophic cardiomyopathy
ICD-10-CM	I42.3	Endomyocardial (eosinophilic) disease
ICD-10-CM	I42.4	Endocardial fibroelastosis
ICD-10-CM	I42.5	Other restrictive cardiomyopathy
ICD-10-CM	I42.6	Alcoholic cardiomyopathy
ICD-10-CM	I42.7	Cardiomyopathy due to drug and external agent
ICD-10-CM	I42.8	Other cardiomyopathies
ICD-10-CM	I42.9	Cardiomyopathy, unspecified
ICD-10-CM	I43	Cardiomyopathy in diseases classified elsewhere
ICD-10-CM	I44.0	Atrioventricular block, first degree
ICD-10-CM	I44.1	Atrioventricular block, second degree
ICD-10-CM	I44.2	Atrioventricular block, complete
ICD-10-CM	I44.30	Unspecified atrioventricular block
ICD-10-CM	I44.39	Other atrioventricular block
ICD-10-CM	I44.4	Left anterior fascicular block
ICD-10-CM	I44.5	Left posterior fascicular block
ICD-10-CM	I44.60	Unspecified fascicular block
ICD-10-CM	I44.69	Other fascicular block
ICD-10-CM	I44.7	Left bundle-branch block, unspecified
ICD-10-CM	I45.0	Right fascicular block
ICD-10-CM	I45.10	Unspecified right bundle-branch block

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	I45.19	Other right bundle-branch block
ICD-10-CM	I45.2	Bifascicular block
ICD-10-CM	I45.3	Trifascicular block
ICD-10-CM	I45.4	Nonspecific intraventricular block
ICD-10-CM	I45.5	Other specified heart block
ICD-10-CM	I45.6	Pre-excitation syndrome
ICD-10-CM	I45.81	Long QT syndrome
ICD-10-CM	I45.89	Other specified conduction disorders
ICD-10-CM	I45.9	Conduction disorder, unspecified
ICD-10-CM	I46.2	Cardiac arrest due to underlying cardiac condition
ICD-10-CM	I46.8	Cardiac arrest due to other underlying condition
ICD-10-CM	I46.9	Cardiac arrest, cause unspecified
ICD-10-CM	I47.0	Re-entry ventricular arrhythmia
ICD-10-CM	I47.1	Supraventricular tachycardia
ICD-10-CM	I47.2	Ventricular tachycardia
ICD-10-CM	I47.9	Paroxysmal tachycardia, unspecified
ICD-10-CM	I48.0	Paroxysmal atrial fibrillation
ICD-10-CM	I48.1	Persistent atrial fibrillation
ICD-10-CM	I48.2	Chronic atrial fibrillation
ICD-10-CM	I48.3	Typical atrial flutter
ICD-10-CM	I48.4	Atypical atrial flutter
ICD-10-CM	I48.91	Unspecified atrial fibrillation
ICD-10-CM	I48.92	Unspecified atrial flutter
ICD-10-CM	I49.01	Ventricular fibrillation
ICD-10-CM	I49.02	Ventricular flutter
ICD-10-CM	I49.1	Atrial premature depolarization
ICD-10-CM	I49.2	Junctional premature depolarization
ICD-10-CM	I49.3	Ventricular premature depolarization
ICD-10-CM	I49.40	Unspecified premature depolarization
ICD-10-CM	I49.49	Other premature depolarization
ICD-10-CM	I49.5	Sick sinus syndrome
ICD-10-CM	I49.8	Other specified cardiac arrhythmias
ICD-10-CM	I49.9	Cardiac arrhythmia, unspecified
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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	I51.0	Cardiac septal defect, acquired
ICD-10-CM	I51.1	Rupture of chordae tendineae, not elsewhere classified
ICD-10-CM	I51.2	Rupture of papillary muscle, not elsewhere classified
ICD-10-CM	I51.3	Intracardiac thrombosis, not elsewhere classified
ICD-10-CM	I51.4	Myocarditis, unspecified
ICD-10-CM	I51.5	Myocardial degeneration
ICD-10-CM	I51.7	Cardiomegaly
ICD-10-CM	I51.81	Takotsubo syndrome
ICD-10-CM	I51.89	Other ill-defined heart diseases
ICD-10-CM	I51.9	Heart disease, unspecified
ICD-10-CM	I52	Other heart disorders in diseases classified elsewhere
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	I60.2	Nontraumatic subarachnoid hemorrhage from 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	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	I62.00	Nontraumatic subdural hemorrhage, unspecified
ICD-10-CM	I62.01	Nontraumatic acute subdural hemorrhage
ICD-10-CM	I62.02	Nontraumatic subacute subdural hemorrhage
ICD-10-CM	I62.03	Nontraumatic chronic subdural hemorrhage
ICD-10-CM	I62.1	Nontraumatic extradural hemorrhage
ICD-10-CM	I62.9	Nontraumatic intracranial 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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	I63.033	Cerebral infarction due to thrombosis of bilateral carotid arteries
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	I63.113	Cerebral infarction due to embolism of bilateral vertebral arteries
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	I63.133	Cerebral infarction due to embolism of bilateral carotid arteries
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	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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	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	I65.01	Occlusion and stenosis of right vertebral artery
ICD-10-CM	I65.02	Occlusion and stenosis of left vertebral artery
ICD-10-CM	I65.03	Occlusion and stenosis of bilateral vertebral arteries
ICD-10-CM	I65.09	Occlusion and stenosis of unspecified vertebral artery
ICD-10-CM	I65.1	Occlusion and stenosis of basilar artery
ICD-10-CM	I65.21	Occlusion and stenosis of right carotid artery
ICD-10-CM	I65.22	Occlusion and stenosis of left carotid artery
ICD-10-CM	I65.23	Occlusion and stenosis of bilateral carotid arteries
ICD-10-CM	I65.29	Occlusion and stenosis of unspecified carotid artery
ICD-10-CM	I65.8	Occlusion and stenosis of other precerebral arteries
ICD-10-CM	I65.9	Occlusion and stenosis of unspecified precerebral artery
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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	I67.89	Other cerebrovascular disease
ICD-10-CM	I70.0	Atherosclerosis of aorta
ICD-10-CM	I70.1	Atherosclerosis of renal artery
ICD-10-CM	I70.201	Unspecified atherosclerosis of native arteries of extremities, right leg
ICD-10-CM	I70.202	Unspecified atherosclerosis of native arteries of extremities, left leg
ICD-10-CM	I70.203	Unspecified atherosclerosis of native arteries of extremities, bilateral legs
ICD-10-CM	I70.208	Unspecified atherosclerosis of native arteries of extremities, other extremity
ICD-10-CM	I70.209	Unspecified atherosclerosis of native arteries of extremities, unspecified extremity
ICD-10-CM	I70.211	Atherosclerosis of native arteries of extremities with intermittent claudication, right leg
ICD-10-CM	I70.212	Atherosclerosis of native arteries of extremities with intermittent claudication, left leg
ICD-10-CM	I70.213	Atherosclerosis of native arteries of extremities with intermittent claudication, bilateral legs
ICD-10-CM	I70.218	Atherosclerosis of native arteries of extremities with intermittent claudication, other extremity
ICD-10-CM	I70.219	Atherosclerosis of native arteries of extremities with intermittent claudication, unspecified extremity
ICD-10-CM	I70.221	Atherosclerosis of native arteries of extremities with rest pain, right leg
ICD-10-CM	I70.222	Atherosclerosis of native arteries of extremities with rest pain, left leg
ICD-10-CM	I70.223	Atherosclerosis of native arteries of extremities with rest pain, bilateral legs
ICD-10-CM	I70.228	Atherosclerosis of native arteries of extremities with rest pain, other extremity
ICD-10-CM	I70.229	Atherosclerosis of native arteries of extremities with rest pain, unspecified extremity
ICD-10-CM	I70.231	Atherosclerosis of native arteries of right leg with ulceration of thigh
ICD-10-CM	I70.232	Atherosclerosis of native arteries of right leg with ulceration of calf
ICD-10-CM	I70.233	Atherosclerosis of native arteries of right leg with ulceration of ankle
ICD-10-CM	I70.234	Atherosclerosis of native arteries of right leg with ulceration of heel and midfoot
ICD-10-CM	I70.235	Atherosclerosis of native arteries of right leg with ulceration of other part of foot
ICD-10-CM	I70.238	Atherosclerosis of native arteries of right leg with ulceration of other part of lower right leg
ICD-10-CM	I70.239	Atherosclerosis of native arteries of right leg with ulceration of unspecified site
ICD-10-CM	I70.241	Atherosclerosis of native arteries of left leg with ulceration of thigh
ICD-10-CM	I70.242	Atherosclerosis of native arteries of left leg with ulceration of calf
ICD-10-CM	I70.243	Atherosclerosis of native arteries of left leg with ulceration of ankle
ICD-10-CM	I70.244	Atherosclerosis of native arteries of left leg with ulceration of heel and midfoot
ICD-10-CM	I70.245	Atherosclerosis of native arteries of left leg with ulceration of other part of foot
ICD-10-CM	I70.248	Atherosclerosis of native arteries of left leg with ulceration of other part of lower left leg
ICD-10-CM	I70.249	Atherosclerosis of native arteries of left leg with ulceration of unspecified site
ICD-10-CM	I70.25	Atherosclerosis of native arteries of other extremities with ulceration
ICD-10-CM	I70.261	Atherosclerosis of native arteries of extremities with gangrene, right leg
ICD-10-CM	I70.262	Atherosclerosis of native arteries of extremities with gangrene, left leg
ICD-10-CM	I70.263	Atherosclerosis of native arteries of extremities with gangrene, bilateral legs
ICD-10-CM	I70.268	Atherosclerosis of native arteries of extremities with gangrene, other extremity
ICD-10-CM	I70.269	Atherosclerosis of native arteries of extremities with gangrene, unspecified extremity

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Code Type	Code	Description
ICD-10-CM	I70.291	Other atherosclerosis of native arteries of extremities, right leg
ICD-10-CM	I70.292	Other atherosclerosis of native arteries of extremities, left leg
ICD-10-CM	I70.293	Other atherosclerosis of native arteries of extremities, bilateral legs
ICD-10-CM	I70.298	Other atherosclerosis of native arteries of extremities, other extremity
ICD-10-CM	I70.299	Other atherosclerosis of native arteries of extremities, unspecified extremity
ICD-10-CM	I70.301	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.302	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.303	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.308	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.309	Unspecified atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.311	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, right leg
ICD-10-CM	I70.312	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, left leg
ICD-10-CM	I70.313	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ICD-10-CM	I70.318	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, other extremity
ICD-10-CM	I70.319	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
ICD-10-CM	I70.321	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, right leg
ICD-10-CM	I70.322	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, left leg
ICD-10-CM	I70.323	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, bilateral legs
ICD-10-CM	I70.328	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, other extremity
ICD-10-CM	I70.329	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with rest pain, unspecified extremity
ICD-10-CM	I70.331	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of thigh
ICD-10-CM	I70.332	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of calf
ICD-10-CM	I70.333	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of ankle
ICD-10-CM	I70.334	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of heel and midfoot
ICD-10-CM	I70.335	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of foot
ICD-10-CM	I70.338	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of other part of lower leg
ICD-10-CM	I70.339	Atherosclerosis of unspecified type of bypass graft(s) of the right leg with ulceration of unspecified site
ICD-10-CM	I70.341	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of thigh
ICD-10-CM	I70.342	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of calf
ICD-10-CM	I70.343	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of ankle
ICD-10-CM	I70.344	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of heel and midfoot
ICD-10-CM	I70.345	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of foot
ICD-10-CM	I70.348	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of other part of lower leg

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Code Type	Code	Description
ICD-10-CM	I70.349	Atherosclerosis of unspecified type of bypass graft(s) of the left leg with ulceration of unspecified site
ICD-10-CM	I70.35	Atherosclerosis of unspecified type of bypass graft(s) of other extremity with ulceration
ICD-10-CM	I70.361	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, right leg
ICD-10-CM	I70.362	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, left leg
ICD-10-CM	I70.363	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, bilateral legs
ICD-10-CM	I70.368	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, other extremity
ICD-10-CM	I70.369	Atherosclerosis of unspecified type of bypass graft(s) of the extremities with gangrene, unspecified extremity
ICD-10-CM	I70.391	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.392	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.393	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.398	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.399	Other atherosclerosis of unspecified type of bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.401	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.402	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.403	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.408	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.409	Unspecified atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.411	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, right leg
ICD-10-CM	I70.412	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, left leg
ICD-10-CM	I70.413	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ICD-10-CM	I70.418	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, other extremity
ICD-10-CM	I70.419	Atherosclerosis of autologous vein bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
ICD-10-CM	I70.421	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, right leg
ICD-10-CM	I70.422	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, left leg
ICD-10-CM	I70.423	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, bilateral legs
ICD-10-CM	I70.428	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, other extremity
ICD-10-CM	I70.429	Atherosclerosis of autologous vein bypass graft(s) of the extremities with rest pain, unspecified extremity
ICD-10-CM	I70.431	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of thigh
ICD-10-CM	I70.432	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of calf
ICD-10-CM	I70.433	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of ankle
ICD-10-CM	I70.434	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of heel and midfoot
ICD-10-CM	I70.435	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of foot

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	I70.438	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of other part of lower leg
ICD-10-CM	I70.439	Atherosclerosis of autologous vein bypass graft(s) of the right leg with ulceration of unspecified site
ICD-10-CM	I70.441	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of thigh
ICD-10-CM	I70.442	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of calf
ICD-10-CM	I70.443	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of ankle
ICD-10-CM	I70.444	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of heel and midfoot
ICD-10-CM	I70.445	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of foot
ICD-10-CM	I70.448	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of other part of lower leg
ICD-10-CM	I70.449	Atherosclerosis of autologous vein bypass graft(s) of the left leg with ulceration of unspecified site
ICD-10-CM	I70.45	Atherosclerosis of autologous vein bypass graft(s) of other extremity with ulceration
ICD-10-CM	I70.461	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, right leg
ICD-10-CM	I70.462	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, left leg
ICD-10-CM	I70.463	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, bilateral legs
ICD-10-CM	I70.468	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, other extremity
ICD-10-CM	I70.469	Atherosclerosis of autologous vein bypass graft(s) of the extremities with gangrene, unspecified extremity
ICD-10-CM	I70.491	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.492	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.493	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.498	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.499	Other atherosclerosis of autologous vein bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.501	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.502	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.503	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.508	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.509	Unspecified atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.511	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, right leg
ICD-10-CM	I70.512	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, left leg
ICD-10-CM	I70.513	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ICD-10-CM	I70.518	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, other extremity
ICD-10-CM	I70.519	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
ICD-10-CM	I70.521	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, right leg
ICD-10-CM	I70.522	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, left leg

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	I70.523	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, bilateral legs
ICD-10-CM	I70.528	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, other extremity
ICD-10-CM	I70.529	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with rest pain, unspecified extremity
ICD-10-CM	I70.531	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of thigh
ICD-10-CM	I70.532	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of calf
ICD-10-CM	I70.533	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of ankle
ICD-10-CM	I70.534	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of heel and midfoot
ICD-10-CM	I70.535	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of foot
ICD-10-CM	I70.538	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of other part of lower leg
ICD-10-CM	I70.539	Atherosclerosis of nonautologous biological bypass graft(s) of the right leg with ulceration of unspecified site
ICD-10-CM	I70.541	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of thigh
ICD-10-CM	I70.542	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of calf
ICD-10-CM	I70.543	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of ankle
ICD-10-CM	I70.544	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of heel and midfoot
ICD-10-CM	I70.545	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of foot
ICD-10-CM	I70.548	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of other part of lower leg
ICD-10-CM	I70.549	Atherosclerosis of nonautologous biological bypass graft(s) of the left leg with ulceration of unspecified site
ICD-10-CM	I70.55	Atherosclerosis of nonautologous biological bypass graft(s) of other extremity with ulceration
ICD-10-CM	I70.561	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, right leg
ICD-10-CM	I70.562	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, left leg
ICD-10-CM	I70.563	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, bilateral legs
ICD-10-CM	I70.568	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, other extremity
ICD-10-CM	I70.569	Atherosclerosis of nonautologous biological bypass graft(s) of the extremities with gangrene, unspecified extremity
ICD-10-CM	I70.591	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.592	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.593	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.598	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.599	Other atherosclerosis of nonautologous biological bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.601	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg

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Code Type	Code	Description
ICD-10-CM	170.602	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
ICD-10-CM	170.603	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	170.608	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
ICD-10-CM	170.609	Unspecified atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	170.611	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, right leg
ICD-10-CM	170.612	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, left leg
ICD-10-CM	170.613	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ICD-10-CM	170.618	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, other extremity
ICD-10-CM	170.619	Atherosclerosis of nonbiological bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
ICD-10-CM	170.621	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, right leg
ICD-10-CM	170.622	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, left leg
ICD-10-CM	170.623	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, bilateral legs
ICD-10-CM	170.628	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, other extremity
ICD-10-CM	170.629	Atherosclerosis of nonbiological bypass graft(s) of the extremities with rest pain, unspecified extremity
ICD-10-CM	170.631	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of thigh
ICD-10-CM	170.632	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of calf
ICD-10-CM	170.633	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of ankle
ICD-10-CM	170.634	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of heel and midfoot
ICD-10-CM	170.635	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of foot
ICD-10-CM	170.638	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of other part of lower leg
ICD-10-CM	170.639	Atherosclerosis of nonbiological bypass graft(s) of the right leg with ulceration of unspecified site
ICD-10-CM	170.641	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of thigh
ICD-10-CM	170.642	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of calf
ICD-10-CM	170.643	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of ankle
ICD-10-CM	170.644	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of heel and midfoot
ICD-10-CM	170.645	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of foot
ICD-10-CM	170.648	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of other part of lower leg
ICD-10-CM	170.649	Atherosclerosis of nonbiological bypass graft(s) of the left leg with ulceration of unspecified site
ICD-10-CM	170.65	Atherosclerosis of nonbiological bypass graft(s) of other extremity with ulceration
ICD-10-CM	170.661	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, right leg
ICD-10-CM	170.662	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, left leg
ICD-10-CM	170.663	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, bilateral legs
ICD-10-CM	170.668	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, other extremity
ICD-10-CM	170.669	Atherosclerosis of nonbiological bypass graft(s) of the extremities with gangrene, unspecified extremity
ICD-10-CM	170.691	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, right leg

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Code Type	Code	Description
ICD-10-CM	170.692	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, left leg
ICD-10-CM	170.693	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	170.698	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, other extremity
ICD-10-CM	170.699	Other atherosclerosis of nonbiological bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	170.701	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, right leg
ICD-10-CM	170.702	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, left leg
ICD-10-CM	170.703	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	170.708	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
ICD-10-CM	170.709	Unspecified atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	170.711	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, right leg
ICD-10-CM	170.712	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, left leg
ICD-10-CM	170.713	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, bilateral legs
ICD-10-CM	170.718	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, other extremity
ICD-10-CM	170.719	Atherosclerosis of other type of bypass graft(s) of the extremities with intermittent claudication, unspecified extremity
ICD-10-CM	170.721	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, right leg
ICD-10-CM	170.722	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, left leg
ICD-10-CM	170.723	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, bilateral legs
ICD-10-CM	170.728	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, other extremity
ICD-10-CM	170.729	Atherosclerosis of other type of bypass graft(s) of the extremities with rest pain, unspecified extremity
ICD-10-CM	170.731	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of thigh
ICD-10-CM	170.732	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of calf
ICD-10-CM	170.733	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of ankle
ICD-10-CM	170.734	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of heel and midfoot
ICD-10-CM	170.735	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of foot
ICD-10-CM	170.738	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of other part of lower leg
ICD-10-CM	170.739	Atherosclerosis of other type of bypass graft(s) of the right leg with ulceration of unspecified site
ICD-10-CM	170.741	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of thigh
ICD-10-CM	170.742	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of calf
ICD-10-CM	170.743	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of ankle
ICD-10-CM	170.744	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of heel and midfoot
ICD-10-CM	170.745	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of foot
ICD-10-CM	170.748	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of other part of lower leg
ICD-10-CM	170.749	Atherosclerosis of other type of bypass graft(s) of the left leg with ulceration of unspecified site
ICD-10-CM	170.75	Atherosclerosis of other type of bypass graft(s) of other extremity with ulceration
ICD-10-CM	170.761	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, right leg
ICD-10-CM	170.762	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, left leg
ICD-10-CM	170.763	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, bilateral legs

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Code Type	Code	Description
ICD-10-CM	I70.768	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, other extremity
ICD-10-CM	I70.769	Atherosclerosis of other type of bypass graft(s) of the extremities with gangrene, unspecified extremity
ICD-10-CM	I70.791	Other atherosclerosis of other type of bypass graft(s) of the extremities, right leg
ICD-10-CM	I70.792	Other atherosclerosis of other type of bypass graft(s) of the extremities, left leg
ICD-10-CM	I70.793	Other atherosclerosis of other type of bypass graft(s) of the extremities, bilateral legs
ICD-10-CM	I70.798	Other atherosclerosis of other type of bypass graft(s) of the extremities, other extremity
ICD-10-CM	I70.799	Other atherosclerosis of other type of bypass graft(s) of the extremities, unspecified extremity
ICD-10-CM	I70.8	Atherosclerosis of other arteries
ICD-10-CM	I70.90	Unspecified atherosclerosis
ICD-10-CM	I70.91	Generalized atherosclerosis
ICD-10-CM	I70.92	Chronic total occlusion of artery of the extremities
ICD-10-CM	I97.0	Postcardiotomy syndrome
ICD-10-CM	I97.110	Postprocedural cardiac insufficiency following cardiac surgery
ICD-10-CM	I97.111	Postprocedural cardiac insufficiency following other surgery
ICD-10-CM	I97.120	Postprocedural cardiac arrest following cardiac surgery
ICD-10-CM	I97.121	Postprocedural cardiac arrest following other surgery
ICD-10-CM	I97.130	Postprocedural heart failure following cardiac surgery
ICD-10-CM	I97.131	Postprocedural heart failure following other surgery
ICD-10-CM	I97.190	Other postprocedural cardiac functional disturbances following cardiac surgery
ICD-10-CM	I97.191	Other postprocedural cardiac functional disturbances following other surgery
ICD-10-CM	M32.11	Endocarditis in systemic lupus erythematosus
ICD-10-CM	M32.12	Pericarditis in systemic lupus erythematosus
ICD-10-CM	R00.1	Bradycardia, unspecified
ICD-10-CM	T82.211A	Breakdown (mechanical) of coronary artery bypass graft, initial encounter
ICD-10-CM	T82.212A	Displacement of coronary artery bypass graft, initial encounter
ICD-10-CM	T82.213A	Leakage of coronary artery bypass graft, initial encounter
ICD-10-CM	T82.218A	Other mechanical complication of coronary artery bypass graft, initial encounter
ICD-10-CM	Z95.1	Presence of aortocoronary bypass graft
ICD-10-CM	Z95.5	Presence of coronary angioplasty implant and graft
ICD-10-CM	Z98.61	Coronary angioplasty status

Corneal Abrasion

ICD-9-CM	918.1	Superficial injury of cornea
ICD-10-CM	S05.00XA	Injury of conjunctiva and corneal abrasion without foreign body, unspecified eye, initial encounter
ICD-10-CM	S05.01XA	Injury of conjunctiva and corneal abrasion without foreign body, right eye, initial encounter
ICD-10-CM	S05.02XA	Injury of conjunctiva and corneal abrasion without foreign body, left eye, initial encounter

Corneal Graft

ICD-9-CM	996.51	Mechanical complication due to corneal graft
ICD-10-CM	T85.318A	Breakdown (mechanical) of other ocular prosthetic devices, implants and grafts, initial encounter
ICD-10-CM	T85.328A	Displacement of other ocular prosthetic devices, implants and grafts, initial encounter
ICD-10-CM	T85.398A	Other mechanical complication of other ocular prosthetic devices, implants and grafts, initial encounter
ICD-10-CM	T86.840	Corneal transplant rejection
ICD-10-CM	T86.841	Corneal transplant failure

Cystoid Macular Degeneration

ICD-9-CM	362.53	Cystoid macular degeneration of retina
ICD-10-CM	H35.351	Cystoid macular degeneration, right eye
ICD-10-CM	H35.352	Cystoid macular degeneration, left eye
ICD-10-CM	H35.353	Cystoid macular degeneration, bilateral
ICD-10-CM	H35.359	Cystoid macular degeneration, unspecified eye

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Code Type	Code	Description
Diabetes		
ICD-09-CM	250	Diabetes mellitus
ICD-09-CM	250.0	Diabetes mellitus without mention of complication
ICD-09-CM	250.00	Diabetes mellitus without mention of complication, type II or unspecified type, not stated as uncontrolled
ICD-09-CM	250.01	Diabetes mellitus without mention of complication, type I [juvenile type], not stated as uncontrolled
ICD-09-CM	250.02	Diabetes mellitus without mention of complication, type II or unspecified type, uncontrolled
ICD-09-CM	250.03	Diabetes mellitus without mention of complication, type I [juvenile type], uncontrolled
ICD-09-CM	250.5	Diabetes with ophthalmic manifestations
ICD-09-CM	250.50	Diabetes with ophthalmic manifestations, type II or unspecified type, not stated as uncontrolled
ICD-09-CM	250.51	Diabetes with ophthalmic manifestations, type I [juvenile type], not stated as uncontrolled
ICD-09-CM	250.52	Diabetes with ophthalmic manifestations, type II or unspecified type, uncontrolled
ICD-09-CM	250.53	Diabetes with ophthalmic manifestations, type I [juvenile type], uncontrolled
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	E11.36	Type 2 diabetes mellitus with diabetic cataract
ICD-10-CM	E11.39	Type 2 diabetes mellitus with other diabetic ophthalmic 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	E10.36	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	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	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	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	E11.3291	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	E11.3311	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

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Code Type	Code	Description
ICD-10-CM	E11.3319	Type 2 diabetes mellitus with moderate nonproliferative diabetic retinopathy with macular edema, unspecified eye
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	E11.3411	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	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	E11.3511	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
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	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	E13.3291	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	E13.3311	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	E13.3391	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	E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
ICD-10-CM	E13.3411	Other specified diabetes mellitus with severe nonproliferative diabetic retinopathy with macular edema, right eye

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E13.3491	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	E13.3511	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	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye
ICD-10-CM	E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye
ICD-10-CM	E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
ICD-10-CM	E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye
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	E13.36	Other specified diabetes mellitus with diabetic cataract
ICD-10-CM	E13.37X1	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, right eye
ICD-10-CM	E13.37X2	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, left eye
ICD-10-CM	E13.37X3	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, bilateral
ICD-10-CM	E13.37X9	Other specified diabetes mellitus with diabetic macular edema, resolved following treatment, unspecified eye
ICD-10-CM	E13.39	Other specified diabetes mellitus with other diabetic ophthalmic complication
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	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	E10.3291	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	E10.3311	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	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E10.3411	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	E10.3491	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	E10.3511	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	E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
ICD-10-CM	E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
ICD-10-CM	E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
ICD-10-CM	E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye
ICD-10-CM	E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
ICD-10-CM	E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
ICD-10-CM	E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
ICD-10-CM	E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye
ICD-10-CM	E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
ICD-10-CM	E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
ICD-10-CM	E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye
ICD-10-CM	E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye
ICD-10-CM	E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye
ICD-10-CM	E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
ICD-10-CM	E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
ICD-10-CM	E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye
ICD-10-CM	E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye
ICD-10-CM	E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
ICD-10-CM	E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye

Diabetic Retinopathy

ICD-9-CM	362.0	Diabetic retinopathy
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-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	E08.3211	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	E08.3291	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	E08.3311	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	E08.3391	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, right eye

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E08.3399	Diabetes mellitus due to underlying condition with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
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	E08.3491	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	E08.3511	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	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E08.3591	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	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	E09.3211	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	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	E09.3311	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	E09.3391	Drug or chemical induced diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, right eye

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E09.3411	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	E09.3491	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	E09.3511	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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	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	E09.3591	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	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	E10.3211	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	E10.3291	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	E10.3311	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	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	E10.3391	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E10.3411	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	E10.3491	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	E10.3511	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	E10.3521	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, right eye
ICD-10-CM	E10.3522	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, left eye
ICD-10-CM	E10.3523	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, bilateral
ICD-10-CM	E10.3529	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment involving the macula, unspecified eye
ICD-10-CM	E10.3531	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, right eye
ICD-10-CM	E10.3532	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, left eye
ICD-10-CM	E10.3533	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, bilateral
ICD-10-CM	E10.3539	Type 1 diabetes mellitus with proliferative diabetic retinopathy with traction retinal detachment not involving the macula, unspecified eye
ICD-10-CM	E10.3541	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, right eye
ICD-10-CM	E10.3542	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, left eye
ICD-10-CM	E10.3543	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, bilateral
ICD-10-CM	E10.3549	Type 1 diabetes mellitus with proliferative diabetic retinopathy with combined traction retinal detachment and rhegmatogenous retinal detachment, unspecified eye
ICD-10-CM	E10.3551	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, right eye
ICD-10-CM	E10.3552	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, left eye

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	E10.3553	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, bilateral
ICD-10-CM	E10.3559	Type 1 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
ICD-10-CM	E10.3591	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye
ICD-10-CM	E10.3592	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye
ICD-10-CM	E10.3593	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
ICD-10-CM	E10.3599	Type 1 diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye
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	E11.3211	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	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	E11.3291	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	E11.3311	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	E11.3391	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	E11.3411	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

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E11.3511	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	E11.3559	Type 2 diabetes mellitus with stable proliferative diabetic retinopathy, unspecified eye
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	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

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	E13.3291	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	E13.3311	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	E13.3391	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	E13.3399	Other specified diabetes mellitus with moderate nonproliferative diabetic retinopathy without macular edema, unspecified eye
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	E13.3491	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	E13.3511	Other specified diabetes mellitus with proliferative diabetic retinopathy with macular edema, right eye

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Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
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	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	E13.3591	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, right eye
ICD-10-CM	E13.3592	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, left eye
ICD-10-CM	E13.3593	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, bilateral
ICD-10-CM	E13.3599	Other specified diabetes mellitus with proliferative diabetic retinopathy without macular edema, unspecified eye
Episcleritis		
ICD-9-CM	379.0	Scleritis and episcleritis
ICD-9-CM	379.01	Episcleritis periodica fugax
ICD-9-CM	379.02	Nodular episcleritis
ICD-9-CM	379.09	Other scleritis and episcleritis
ICD-10-CM	H15.091	Other scleritis, right eye
ICD-10-CM	H15.092	Other scleritis, left eye
ICD-10-CM	H15.093	Other scleritis, bilateral

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Code Type	Code	Description
ICD-10-CM	H15.099	Other scleritis, unspecified eye
ICD-10-CM	H15.111	Episcleritis periodica fugax, right eye
ICD-10-CM	H15.112	Episcleritis periodica fugax, left eye
ICD-10-CM	H15.113	Episcleritis periodica fugax, bilateral
ICD-10-CM	H15.119	Episcleritis periodica fugax, unspecified eye
ICD-10-CM	H15.121	Nodular episcleritis, right eye
ICD-10-CM	H15.122	Nodular episcleritis, left eye
ICD-10-CM	H15.123	Nodular episcleritis, bilateral
ICD-10-CM	H15.129	Nodular episcleritis, unspecified eye
Fuchs' Endothelial Dystrophy		
ICD-9-CM	371.57	Endothelial corneal dystrophy
ICD-10-CM	H18.51	Endothelial corneal dystrophy
Heterochromic Cyclitis		
ICD-9-CM	364.21	Fuchs' heterochromic cyclitis
ICD-10-CM	H20.811	Fuchs' heterochromic cyclitis, right eye
ICD-10-CM	H20.812	Fuchs' heterochromic cyclitis, left eye
ICD-10-CM	H20.813	Fuchs' heterochromic cyclitis, bilateral
ICD-10-CM	H20.819	Fuchs' heterochromic cyclitis, unspecified eye
Keratitis		
ICD-9-CM	054.42	Dendritic keratitis
ICD-9-CM	054.43	Herpes simplex disciform keratitis
ICD-9-CM	090.3	Syphilitic interstitial keratitis
ICD-9-CM	098.43	Gonococcal keratitis
ICD-9-CM	370	Keratitis
ICD-9-CM	370.2	Superficial keratitis without conjunctivitis
ICD-9-CM	370.20	Unspecified superficial keratitis
ICD-9-CM	370.21	Punctate keratitis
ICD-9-CM	370.22	Macular keratitis
ICD-9-CM	370.23	Filamentary keratitis
ICD-9-CM	370.24	Photokeratitis
ICD-9-CM	370.44	Keratitis or keratoconjunctivitis in exanthema
ICD-9-CM	370.5	Interstitial and deep keratitis
ICD-9-CM	370.50	Unspecified interstitial keratitis
ICD-9-CM	370.52	Diffuse interstitial keratitis
ICD-9-CM	370.54	Sclerosing keratitis
ICD-9-CM	370.59	Other interstitial and deep keratitis
ICD-9-CM	370.8	Other forms of keratitis
ICD-9-CM	370.9	Unspecified keratitis
ICD-10-CM	A18.52	Tuberculous keratitis
ICD-10-CM	A50.31	Late congenital syphilitic interstitial keratitis
ICD-10-CM	A54.33	Gonococcal keratitis
ICD-10-CM	B00.52	Herpesviral keratitis
ICD-10-CM	B60.13	Keratoconjunctivitis due to Acanthamoeba
ICD-10-CM	H16.101	Unspecified superficial keratitis, right eye
ICD-10-CM	H16.102	Unspecified superficial keratitis, left eye
ICD-10-CM	H16.103	Unspecified superficial keratitis, bilateral
ICD-10-CM	H16.109	Unspecified superficial keratitis, unspecified eye
ICD-10-CM	H16.111	Macular keratitis, right eye
ICD-10-CM	H16.112	Macular keratitis, left eye
ICD-10-CM	H16.113	Macular keratitis, bilateral
ICD-10-CM	H16.119	Macular keratitis, unspecified eye

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	H16.121	Filamentary keratitis, right eye
ICD-10-CM	H16.122	Filamentary keratitis, left eye
ICD-10-CM	H16.123	Filamentary keratitis, bilateral
ICD-10-CM	H16.129	Filamentary keratitis, unspecified eye
ICD-10-CM	H16.131	Photokeratitis, right eye
ICD-10-CM	H16.132	Photokeratitis, left eye
ICD-10-CM	H16.133	Photokeratitis, bilateral
ICD-10-CM	H16.139	Photokeratitis, unspecified eye
ICD-10-CM	H16.141	Punctate keratitis, right eye
ICD-10-CM	H16.142	Punctate keratitis, left eye
ICD-10-CM	H16.143	Punctate keratitis, bilateral
ICD-10-CM	H16.149	Punctate keratitis, unspecified eye
ICD-10-CM	H16.291	Other keratoconjunctivitis, right eye
ICD-10-CM	H16.292	Other keratoconjunctivitis, left eye
ICD-10-CM	H16.293	Other keratoconjunctivitis, bilateral
ICD-10-CM	H16.299	Other keratoconjunctivitis, unspecified eye
ICD-10-CM	H16.301	Unspecified interstitial keratitis, right eye
ICD-10-CM	H16.302	Unspecified interstitial keratitis, left eye
ICD-10-CM	H16.303	Unspecified interstitial keratitis, bilateral
ICD-10-CM	H16.309	Unspecified interstitial keratitis, unspecified eye
ICD-10-CM	H16.321	Diffuse interstitial keratitis, right eye
ICD-10-CM	H16.322	Diffuse interstitial keratitis, left eye
ICD-10-CM	H16.323	Diffuse interstitial keratitis, bilateral
ICD-10-CM	H16.329	Diffuse interstitial keratitis, unspecified eye
ICD-10-CM	H16.331	Sclerosing keratitis, right eye
ICD-10-CM	H16.332	Sclerosing keratitis, left eye
ICD-10-CM	H16.333	Sclerosing keratitis, bilateral
ICD-10-CM	H16.339	Sclerosing keratitis, unspecified eye
ICD-10-CM	H16.391	Other interstitial and deep keratitis, right eye
ICD-10-CM	H16.392	Other interstitial and deep keratitis, left eye
ICD-10-CM	H16.393	Other interstitial and deep keratitis, bilateral
ICD-10-CM	H16.399	Other interstitial and deep keratitis, unspecified eye
ICD-10-CM	H16.8	Other keratitis
ICD-10-CM	H16.9	Unspecified keratitis

Macular Degeneration

ICD-9-CM	362.50	Macular degeneration (senile) of retina, unspecified
ICD-9-CM	362.51	Nonexudative senile macular degeneration of retina
ICD-9-CM	362.52	Exudative senile macular degeneration of retina
ICD-9-CM	362.53	Cystoid macular degeneration of retina
ICD-10-CM	H35.30	Unspecified macular degeneration
ICD-10-CM	H35.3110	Nonexudative age-related macular degeneration, right eye, stage unspecified
ICD-10-CM	H35.3111	Nonexudative age-related macular degeneration, right eye, early dry stage
ICD-10-CM	H35.3112	Nonexudative age-related macular degeneration, right eye, intermediate dry stage
ICD-10-CM	H35.3113	Nonexudative age-related macular degeneration, right eye, advanced atrophic without subfoveal involvement
ICD-10-CM	H35.3114	Nonexudative age-related macular degeneration, right eye, advanced atrophic with subfoveal involvement
ICD-10-CM	H35.3120	Nonexudative age-related macular degeneration, left eye, stage unspecified
ICD-10-CM	H35.3121	Nonexudative age-related macular degeneration, left eye, early dry stage
ICD-10-CM	H35.3122	Nonexudative age-related macular degeneration, left eye, intermediate dry stage

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Code Type	Code	Description
ICD-10-CM	H35.3123	Nonexudative age-related macular degeneration, left eye, advanced atrophic without subfoveal involvement
ICD-10-CM	H35.3124	Nonexudative age-related macular degeneration, left eye, advanced atrophic with subfoveal involvement
ICD-10-CM	H35.3130	Nonexudative age-related macular degeneration, bilateral, stage unspecified
ICD-10-CM	H35.3131	Nonexudative age-related macular degeneration, bilateral, early dry stage
ICD-10-CM	H35.3132	Nonexudative age-related macular degeneration, bilateral, intermediate dry stage
ICD-10-CM	H35.3133	Nonexudative age-related macular degeneration, bilateral, advanced atrophic without subfoveal involvement
ICD-10-CM	H35.3134	Nonexudative age-related macular degeneration, bilateral, advanced atrophic with subfoveal involvement
ICD-10-CM	H35.3190	Nonexudative age-related macular degeneration, unspecified eye, stage unspecified
ICD-10-CM	H35.3191	Nonexudative age-related macular degeneration, unspecified eye, early dry stage
ICD-10-CM	H35.3192	Nonexudative age-related macular degeneration, unspecified eye, intermediate dry stage
ICD-10-CM	H35.3193	Nonexudative age-related macular degeneration, unspecified eye, advanced atrophic without subfoveal involvement
ICD-10-CM	H35.3194	Nonexudative age-related macular degeneration, unspecified eye, advanced atrophic with subfoveal involvement
ICD-10-CM	H35.3210	Exudative age-related macular degeneration, right eye, stage unspecified
ICD-10-CM	H35.3211	Exudative age-related macular degeneration, right eye, with active choroidal neovascularization
ICD-10-CM	H35.3212	Exudative age-related macular degeneration, right eye, with inactive choroidal neovascularization
ICD-10-CM	H35.3213	Exudative age-related macular degeneration, right eye, with inactive scar
ICD-10-CM	H35.3220	Exudative age-related macular degeneration, left eye, stage unspecified
ICD-10-CM	H35.3221	Exudative age-related macular degeneration, left eye, with active choroidal neovascularization
ICD-10-CM	H35.3222	Exudative age-related macular degeneration, left eye, with inactive choroidal neovascularization
ICD-10-CM	H35.3223	Exudative age-related macular degeneration, left eye, with inactive scar
ICD-10-CM	H35.3230	Exudative age-related macular degeneration, bilateral, stage unspecified
ICD-10-CM	H35.3231	Exudative age-related macular degeneration, bilateral, with active choroidal neovascularization
ICD-10-CM	H35.3232	Exudative age-related macular degeneration, bilateral, with inactive choroidal neovascularization
ICD-10-CM	H35.3233	Exudative age-related macular degeneration, bilateral, with inactive scar
ICD-10-CM	H35.3290	Exudative age-related macular degeneration, unspecified eye, stage unspecified
ICD-10-CM	H35.3291	Exudative age-related macular degeneration, unspecified eye, with active choroidal neovascularization
ICD-10-CM	H35.3292	Exudative age-related macular degeneration, unspecified eye, with inactive choroidal neovascularization
ICD-10-CM	H35.3293	Exudative age-related macular degeneration, unspecified eye, with inactive scar
ICD-10-CM	H35.351	Cystoid macular degeneration, right eye
ICD-10-CM	H35.352	Cystoid macular degeneration, left eye
ICD-10-CM	H35.353	Cystoid macular degeneration, bilateral
ICD-10-CM	H35.359	Cystoid macular degeneration, unspecified eye
Retinitis Pigmentosa		
ICD-9-CM	362.74	Pigmentary retinal dystrophy
ICD-10-CM	H35.52	Pigmentary retinal dystrophy
Subconjunctival Hemorrhage		
ICD-9-CM	372.72	Conjunctival hemorrhage
ICD-10-CM	H11.33	Conjunctival hemorrhage, bilateral
ICD-10-CM	H11.30	Conjunctival hemorrhage, unspecified eye

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	H11.31	Conjunctival hemorrhage, right eye
ICD-10-CM	H11.32	Conjunctival hemorrhage, left eye
Uremia		
ICD-9-CM	585.9	Chronic kidney disease, unspecified
ICD-9-CM	586	Unspecified renal failure
ICD-10-CM	N18.9	Chronic kidney disease, unspecified
ICD-10-CM	N19	Unspecified kidney failure
Uveitis/Iritis		
ICD-9-CM	091.5	Early syphilis, uveitis due to secondary syphilis
ICD-9-CM	091.50	Early syphilis, syphilitic uveitis, unspecified
ICD-9-CM	360.11	Sympathetic uveitis
ICD-9-CM	360.12	Panuveitis
ICD-9-CM	053.22	Herpes zoster iridocyclitis
ICD-9-CM	054.44	Herpes simplex iridocyclitis
ICD-9-CM	091.52	Early syphilis, syphilitic iridocyclitis (secondary)
ICD-9-CM	098.41	Gonococcal iridocyclitis
ICD-9-CM	364.0	Acute and subacute iridocyclitis
ICD-9-CM	364.00	Unspecified acute and subacute iridocyclitis
ICD-9-CM	364.01	Primary iridocyclitis
ICD-9-CM	364.02	Recurrent iridocyclitis
ICD-9-CM	364.03	Secondary iridocyclitis, infectious
ICD-9-CM	364.04	Secondary iridocyclitis, noninfectious
ICD-9-CM	364.1	Chronic iridocyclitis
ICD-9-CM	364.10	Unspecified chronic iridocyclitis
ICD-9-CM	364.11	Chronic iridocyclitis in diseases classified elsewhere
ICD-9-CM	364.2	Certain types of iridocyclitis
ICD-9-CM	364.23	Lens-induced iridocyclitis
ICD-9-CM	364.3	Unspecified iridocyclitis
ICD-10-CM	A18.54	Tuberculous iridocyclitis
ICD-10-CM	A51.43	Secondary syphilitic ophthalmopathy
ICD-10-CM	A54.32	Gonococcal iridocyclitis
ICD-10-CM	B00.51	Herpesviral iridocyclitis
ICD-10-CM	B02.32	Zoster iridocyclitis
ICD-10-CM	H20.00	Unspecified acute and subacute iridocyclitis
ICD-10-CM	H20.011	Primary iridocyclitis, right eye
ICD-10-CM	H20.012	Primary iridocyclitis, left eye
ICD-10-CM	H20.013	Primary iridocyclitis, bilateral
ICD-10-CM	H20.019	Primary iridocyclitis, unspecified eye
ICD-10-CM	H20.021	Recurrent acute iridocyclitis, right eye
ICD-10-CM	H20.022	Recurrent acute iridocyclitis, left eye
ICD-10-CM	H20.023	Recurrent acute iridocyclitis, bilateral
ICD-10-CM	H20.029	Recurrent acute iridocyclitis, unspecified eye
ICD-10-CM	H20.031	Secondary infectious iridocyclitis, right eye
ICD-10-CM	H20.032	Secondary infectious iridocyclitis, left eye
ICD-10-CM	H20.033	Secondary infectious iridocyclitis, bilateral
ICD-10-CM	H20.039	Secondary infectious iridocyclitis, unspecified eye
ICD-10-CM	H20.041	Secondary noninfectious iridocyclitis, right eye
ICD-10-CM	H20.042	Secondary noninfectious iridocyclitis, left eye
ICD-10-CM	H20.043	Secondary noninfectious iridocyclitis, bilateral
ICD-10-CM	H20.049	Secondary noninfectious iridocyclitis, unspecified eye
ICD-10-CM	H20.10	Chronic iridocyclitis, unspecified eye

Appendix J: List of Diagnosis Codes Used to Define Covariates in this Request

Code Type	Code	Description
ICD-10-CM	H20.11	Chronic iridocyclitis, right eye
ICD-10-CM	H20.12	Chronic iridocyclitis, left eye
ICD-10-CM	H20.13	Chronic iridocyclitis, bilateral
ICD-10-CM	H20.20	Lens-induced iridocyclitis, unspecified eye
ICD-10-CM	H20.21	Lens-induced iridocyclitis, right eye
ICD-10-CM	H20.22	Lens-induced iridocyclitis, left eye
ICD-10-CM	H20.23	Lens-induced iridocyclitis, bilateral
ICD-10-CM	H20.9	Unspecified iridocyclitis
ICD-10-CM	H44.111	Panuveitis, right eye
ICD-10-CM	H44.112	Panuveitis, left eye
ICD-10-CM	H44.113	Panuveitis, bilateral
ICD-10-CM	H44.119	Panuveitis, unspecified eye
ICD-10-CM	H44.131	Sympathetic uveitis, right eye
ICD-10-CM	H44.132	Sympathetic uveitis, left eye
ICD-10-CM	H44.133	Sympathetic uveitis, bilateral
ICD-10-CM	H44.139	Sympathetic uveitis, unspecified eye
Vasculitis		
ICD-9-CM	362.18	Retinal vasculitis
ICD-10-CM	H35.061	Retinal vasculitis, right eye
ICD-10-CM	H35.062	Retinal vasculitis, left eye
ICD-10-CM	H35.063	Retinal vasculitis, bilateral
ICD-10-CM	H35.069	Retinal vasculitis, unspecified eye

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Appendix K: Specifications for Request: cder_mpl1r_wp061_nsdv_v01

The Center for Drug Evaluation and Research (CDER) requested execution of the Cohort Identification and Descriptive Analysis (CIDA) tool to examine the association between mometasone stent implants and adverse ocular events in the Sentinel Distributed Database (SDD).

Query Period: 8/01/2011 - current data completeness
Enrollment Requirement: Scenarios 1-20: 183 days; scenario 21: 365 days
Enrollment Gap: 45 days
Coverage Requirement: Medical and Drug Coverage
Age Groups: 0-18, 19-24, 25-40, 41-64, 65+ years
Results Stratified by: Age, Sex, Year

Scenario	Exposure				Inclusion/Exclusion Criteria						Outcome			Baseline Covariates								
	Incident Exposure	Incidence Criteria	Truncation Criteria	Washout (Days)	Intent to Treat	Episode Gap Type	Episode Gap	Cohort Definition	Censor due to Evidence of Death	Pre-Existing Conditions	Include/Exclude	Lookback Period	Pre-Existing Conditions	Include/Exclude	Lookback Period	Outcome	Care Setting	Washout (Days)	Blackout Period	Covariates	Care Setting	Evaluation Window
1	Propel stent	Stent implant	Intranasal steroids, oral steroids, sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Diminished or decreased visual acuity	Any	183	0	See Covariates tab	Any	-183, 0
2	Intranasal steroids	Intranasal steroid, stent implant, or sinus surgery	Stent implant, oral steroids, sinus surgery	183	.	Percent	50%	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Diminished or decreased visual acuity	Any	183	0	See Covariates tab	Any	-183, 0
3	Oral steroids	Oral steroid, intranasal steroid, stent implant, or sinus surgery	Stent implant, intranasal steroids, sinus surgery	183	7	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Diminished or decreased visual acuity	Any	183	0	See Covariates tab	Any	-183, 0
4	Sinus Surgery	Sinus surgery	Stent implant, intranasal steroids, oral steroids	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Diminished or decreased visual acuity	Any	183	0	See Covariates tab	Any	-183, 0
5	Propel stent	Stent implant	Intranasal steroids, oral steroids, sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Glaucoma diagnosis or treatment	Any	183	0	See Covariates tab	Any	-183, 0
6	Intranasal steroids	Intranasal steroid, stent implant, or sinus surgery	Stent implant, oral steroids, sinus surgery	183	.	Percent	50%	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Glaucoma diagnosis or treatment	Any	183	0	See Covariates tab	Any	-183, 0
7	Oral steroids	Oral steroid, intranasal steroid, stent implant, or sinus surgery	Stent implant, intranasal steroids, sinus surgery	183	7	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Glaucoma diagnosis or treatment	Any	183	0	See Covariates tab	Any	-183, 0
8	Sinus Surgery	Sinus surgery	Stent implant, intranasal steroids, oral steroids	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Glaucoma diagnosis or treatment	Any	183	0	See Covariates tab	Any	-183, 0
9	Propel stent	Stent implant	Intranasal steroids, oral steroids, sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	-183, 0
10	Intranasal steroids	Intranasal steroid, stent implant, or sinus surgery	Stent implant, oral steroids, sinus surgery	183	.	Percent	50%	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	-183, 0
11	Oral steroids	Oral steroid, intranasal steroid, stent implant, or sinus surgery	Stent implant, intranasal steroids, sinus surgery	183	7	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	-183, 0
12	Sinus Surgery	Sinus surgery	Stent implant, intranasal steroids, oral steroids	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	-183, 0

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13	Propel stent	Stent implant	Intranasal steroids, oral steroids, sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Blindness	Any	183	0	See Covariates tab	Any	-183, 0
14	Intranasal steroids	Intranasal steroid, stent implant, or sinus surgery	Stent implant, oral steroids, sinus surgery	183	.	Percent	50%	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Blindness	Any	183	0	See Covariates tab	Any	-183, 0
15	Oral steroids	Oral steroid, intranasal steroid, stent implant, or sinus surgery	Stent implant, intranasal steroids, sinus surgery	183	7	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Blindness	Any	183	0	See Covariates tab	Any	-183, 0
16	Sinus Surgery	Sinus surgery	Stent implant, intranasal steroids, oral steroids	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Blindness	Any	183	0	See Covariates tab	Any	-183, 0
17	Propel stent	Stent implant	Sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	0
										Intranasal or oral steroids	Include	-183, 0										
18	Propel stent	Stent implant	Intranasal steroids, oral steroids, sinus surgery	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	0
										Intranasal or oral steroids	Exclude	-183, 0										
19	Sinus Surgery	Sinus surgery	Stent implant	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	0
										Intranasal or oral steroids	Include	-183, 0										
20	Sinus Surgery	Sinus surgery	Stent implant, intranasal steroids, oral steroids	183	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	0
										Intranasal or oral steroids	Exclude	-183, 0										
21	Two propel stents within 365 days	Stent implant	Intranasal steroids, oral steroids, sinus surgery	---	90	Percent	0	01	Yes	Nasal polyp diagnosis	Include	-183, 0	See exclusion list	Exclude	-183, 0	Cataracts diagnosis or cataracts surgery	Any	183	0	See Covariates tab	Any	0

International Classification of Diseases, Ninth and Tenth Revision (ICD-9 and ICD-10), HealthcareCommon Procedure Coding System (HCPCS), and Current Procedural Terminology (CPT) codes are provided by Optum360. National Drug Codes (NDC) codes are checked against First Data Bank's "National Drug Data File (NDDF®) Plus."