

eCQM Title	QPP191 - Cataracts: 20/40 or Better Visual Acuity within 90 Days Following Cataract Surgery		
eCQM Identifier (Measure Authoring Tool)	133	eCQM Version Number	9.2.000
NQF Number	0565e	GUID	39e0424a-1727-4629-89e2-c46c2fbb3f5f
Measurement Period	January 1, 2021 through December 31, 2021		
Measure Steward	PCPI(R) Foundation (PCPI[R])		
Measure Developer	American Medical Association (AMA)		
Measure Developer	PCPI(R) Foundation (PCPI[R])		
Endorsed By	National Quality Forum		
Description	Percentage of cataract surgeries for patients aged 18 and older with a diagnosis of uncomplicated cataract and no significant ocular conditions impacting the visual outcome of surgery and had best-corrected visual acuity of 20/40 or better (distance or near) achieved in the operative eye within 90 days following the cataract surgery		
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Measure Scoring	Proportion		
Measure Type	Outcome		
Stratification	None		
Risk Adjustment	None		
Rate Aggregation	None		
Rationale	<p>In the United States, cataracts affect more than 24 million adults over 40 years (National Eye Institute, 2019). According to the American Academy of Ophthalmology (2016), cataract surgery has a substantial beneficial impact on visual function and on quality of life.</p> <p>1. Scientific basis for measuring visual acuity outcomes after cataract surgery The only reason to perform cataract surgery (other than for a limited set of medical indications) is to improve a patient's vision and associated functioning. The use of a 20/40 visual acuity threshold is based on several considerations. First, it is the level for unrestricted operation of a motor vehicle in the US. Second, it has been consistently used by the FDA in its assessment for approval of intraocular lens (IOL) and other vision devices. Third, it is the literature standard to denote success in cataract surgery. Fourth, work by West et al. in the Salisbury Eye Study suggests that 20/40 is a useful threshold for 50th percentile functioning for several vision-related tasks.</p> <p>Most patients achieve excellent visual acuity after cataract surgery (20/40 or better). This outcome is achieved consistently through careful attention through the accurate measurement of axial length and corneal power and the appropriate selection of an IOL power calculation formula. As such, it reflects the care and diligence with which the surgery is assessed, planned and executed. Failure to achieve this after surgery in eyes without comorbid ocular conditions that would impact the success of the surgery would reflect care that should be assessed for opportunities for improvement.</p> <p>The exclusion of patients with other ocular and systemic conditions known to increase the risk of an adverse outcome reflects the findings of the two published prediction rule papers for cataract surgery outcomes, by Mangione et al. (1995) and Steinberg et al. (1994). In both papers, the presence of comorbid glaucoma and macular degeneration negatively impacted the likelihood of successful outcomes of surgery. Further, as noted in the prior indicator, exclusion of eyes with ocular conditions that could impact the success of the surgery would NOT eliminate the large majority of eyes undergoing surgery while also minimizing the potential adverse selection that might otherwise occur relative to those patients with the most complex situations who might benefit the most from having surgery to maximize their remaining vision.</p> <p>2. Evidence of a gap in care Cataract surgery successfully restores vision in the majority of people who have the procedure.</p> <p>Data from a study of 368,256 cataract surgeries show that corrected visual acuity (CDVA) of 0.5 (20/40) or better was achieved in 94.3% and CDVA of 1.0 (20/20) or better was achieved in 61.3% of cases (Lundstrom, Barry, Henry, Rosen & Stenevi, 2013).</p> <p>Additionally, data from a UK multi-center Cataract National Dataset found a postoperative visual acuity of 6/12 (20/40) or better was achieved for 94.7% of eyes with no co-pathologies and in 79.9% of eyes with one or more co-</p>		

	pathologies (Jaycock et al., 2009). A rate of 85.5-94.7% of patients achieving a 20/40 or better visual acuity in the context of approximately 3 million cataract surgeries in the US annually would mean that between 160,000 to 435,000 individuals would not achieve a 20/40 or better visual acuity which suggests an opportunity for improvement.
Clinical Recommendation Statement	This is an outcome measure. As such, there is no statement in the guideline specific to this measurement topic.
Improvement Notation	Higher score indicates better quality
Reference	American Academy of Ophthalmology. (2016). Cataract in the adult eye Preferred Practice Pattern. San Francisco, CA: American Academy of Ophthalmology.
Reference	Jaycock, P., Johnston, R. L., Taylor, H., Adams, M., Tole, D. M., Galloway, P., ... UK EPR user group (2009). The Cataract National Dataset electronic multi-centre audit of 55,567 operations: Updating benchmark standards of care in the United Kingdom and internationally. <i>Eye</i> , 23(1), 38-49. doi:10.1038/sj.eye.6703015
Reference	Lundstrom, M., Barry, P., Henry, Y., Rosen, P., & Stenevi, U. (2013). Visual outcome of cataract surgery: Study from the European Registry of Quality Outcomes for Cataract and Refractive Surgery. <i>Journal of Cataract & Refractive Surgery</i> , 39(5), 673-679. doi:10.1016/j.jcrs.2012.11.026
Reference	Mangione, C. M., Orav, J., Lawrence, M. G., Phillips, R.S., Seddon, J.M., & Goldman, L. (1995). Prediction of visual function after cataract surgery: A prospectively validated model. <i>Archives of Ophthalmology</i> , 113(10), 1305-1311. doi:10.1001/archophth.1995.01100100093037
Reference	National Eye Institute. (2019). Cataract data and statistics. Retrieved from https://nei.nih.gov/eyedata/cataract
Reference	Steinberg, E. P., Tielsch, J. M., Schein, O. D., Javitt, J. C., Sharkey, P., Cassard, S. D., ... Damiano, A. M. (1994). National study of cataract surgery outcomes: Variation in 4-month postoperative outcomes as reflected in multiple outcome measures. <i>Ophthalmology</i> , 101(6), 1131-1141. doi:10.1016/s0161-6420(94)31210-3
Definition	None
Guidance	<p>This eCQM is an episode-based measure, meaning there may be more than one reportable event for a given patient during the measurement period. The level of analysis for this measure is each cataract surgery during the measurement period, including instances where more than one cataract procedure was performed during the measurement period. Every cataract surgery during the measurement period should be counted as a measurable denominator event for the measure calculation.</p> <p>Only procedures performed during January 1 - September 30 of the reporting period will be considered for this measure, in order to determine if 20/40 or better visual acuity has been achieved within the 90 days following the cataract procedure. Cataract procedures performed during October 1 - December 31 are excluded from the initial population.</p> <p>The measure, as written, does not specifically require documentation of laterality. Coding limitations in particular clinical terminologies do not currently allow for that level of specificity (ICD-10-CM includes laterality, but SNOMED-CT does not uniformly include this distinction). Therefore, at this time, it is not a requirement of this measure to indicate laterality of the diagnoses, findings or procedures. Available coding to capture the data elements specified in this measure has been provided. It is assumed that the eligible professional or eligible clinician will record laterality in the patient medical record, as quality care and clinical documentation should include laterality.</p> <p>This measure is to be reported by the clinician performing the cataract surgery procedure. Clinicians who provide only preoperative or postoperative management of cataract patients are not eligible for this measure.</p> <p>This version of the eCQM uses QDM version 5.5. Please refer to the eCQI resource center (https://ecqi.healthit.gov/qdm) for more information on the QDM.</p>
Transmission Format	TBD
Initial Population	All cataract surgeries for patients aged 18 years and older who did not meet any exclusion criteria
Denominator	Equals Initial Population
Denominator Exclusions	Cataract surgeries in patients with significant ocular conditions impacting the visual outcome of surgery
Numerator	Cataract surgeries with best-corrected visual acuity of 20/40 or better (distance or near) achieved in the operative eye within 90 days following cataract surgery
Numerator Exclusions	Not Applicable
Denominator Exceptions	None
Supplemental Data Elements	For every patient evaluated by this measure also identify payer, race, ethnicity and sex

Table of Contents

- [Population Criteria](#)
- [Definitions](#)
- [Functions](#)
- [Terminology](#)
- [Data Criteria \(QDM Data Elements\)](#)
- [Supplemental Data Elements](#)
- [Risk Adjustment Variables](#)

Population Criteria

Initial Population

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed with ["Patient Characteristic Birthdate": "Birth date"] BirthDate such that Global."CalendarAgeInYearsAt" (BirthDate.birthDatetime, start of "Measurement Period") >= 18

Denominator

"Initial Population"

▲ Denominator Exclusions

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed with (["Diagnosis": "Acute and Subacute Iridocyclitis"] union ["Diagnosis": "Amblyopia"] union ["Diagnosis": "Burn Confined to Eye and Adnexa"] union ["Diagnosis": "Cataract Secondary to Ocular Disorders"] union ["Diagnosis": "Cataract, Congenital"] union ["Diagnosis": "Cataract, Mature or Hypermature"] union ["Diagnosis": "Cataract, Posterior Polar"] union ["Diagnosis": "Central Corneal Ulcer"] union ["Diagnosis": "Certain Types of Iridocyclitis"] union ["Diagnosis": "Choroidal Degenerations"] union ["Diagnosis": "Choroidal Detachment"] union ["Diagnosis": "Choroidal Hemorrhage and Rupture"] union ["Diagnosis": "Chronic Iridocyclitis"] union ["Diagnosis": "Cloudy Cornea"] union ["Diagnosis": "Corneal Edema"] union ["Diagnosis": "Corneal Opacity and Other Disorders of Cornea"] union ["Diagnosis": "Degeneration of Macula and Posterior Pole"] union ["Diagnosis": "Degenerative Disorders of Globe"] union ["Diagnosis": "Diabetic Macular Edema"] union ["Diagnosis": "Diabetic Retinopathy"] union ["Diagnosis": "Disorders of Optic Chiasm"] union ["Diagnosis": "Disorders of Visual Cortex"] union ["Diagnosis": "Disseminated Chorioretinitis and Disseminated Retinochoroiditis"] union ["Diagnosis": "Focal Chorioretinitis and Focal Retinochoroiditis"] union ["Diagnosis": "Glaucoma"] union ["Diagnosis": "Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes"] union ["Diagnosis": "Hereditary Choroidal Dystrophies"] union ["Diagnosis": "Hereditary Corneal Dystrophies"] union ["Diagnosis": "Hereditary Retinal Dystrophies"] union ["Diagnosis": "Hypotony of Eye"] union ["Diagnosis": "Injury to Optic Nerve and Pathways"] union ["Diagnosis": "Macular Scar of Posterior Polar"] union ["Diagnosis": "Morgagnian Cataract"] union ["Diagnosis": "Nystagmus and Other Irregular Eye Movements"] union ["Diagnosis": "Open Wound of Eyeball"] union ["Diagnosis": "Optic Atrophy"] union ["Diagnosis": "Optic Neuritis"] union ["Diagnosis": "Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis"] union ["Diagnosis": "Other Background Retinopathy and Retinal Vascular Changes"] union ["Diagnosis": "Other Disorders of Optic Nerve"] union ["Diagnosis": "Other Endophthalmitis"] union ["Diagnosis": "Other Proliferative Retinopathy"] union ["Diagnosis": "Pathologic Myopia"] union ["Diagnosis": "Posterior Lenticulus"] union ["Diagnosis": "Prior Penetrating Keratoplasty"] union ["Diagnosis": "Purulent Endophthalmitis"] union ["Diagnosis": "Retinal Detachment with Retinal Defect"] union ["Diagnosis": "Retinal Vascular Occlusion"] union ["Diagnosis": "Retrolental Fibroplasias"] union ["Diagnosis": "Scleritis and Episcleritis"] union ["Diagnosis": "Separation of Retinal Layers"] union ["Diagnosis": "Traumatic Cataract"] union ["Diagnosis": "Uveitis"] union ["Diagnosis": "Vascular Disorders of Iris and Ciliary Body"] union ["Diagnosis": "Visual Field Defects"]) ComorbidDiagnosis such that ComorbidDiagnosis.prevalencePeriod overlaps before CataractSurgeryPerformed.relevantPeriod

▲ Numerator

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed with (["Physical Exam, Performed": "Best corrected visual acuity (observable entity)"] union ["Physical Exam, Performed": "Best Corrected Visual Acuity Exam Using Snellen Chart"]) VisualAcuityExamPerformed such that VisualAcuityExamPerformed.relevantDatetime 90 days or less after day of end of CataractSurgeryPerformed.relevantPeriod and VisualAcuityExamPerformed.result in "Visual Acuity 20/40 or Better"

▲ Numerator Exclusions

None

▲ Denominator Exceptions

None

▲ Stratification

None

Definitions

▲ Cataract Surgery Between January and September of Measurement Period

["Procedure, Performed": "Cataract Surgery"] CataractSurgery where CataractSurgery.relevantPeriod during "Measurement Period" and CataractSurgery.relevantPeriod starts 93 days or more before

end of "Measurement Period"

Denominator

"Initial Population"

Denominator Exclusions

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed
with (["Diagnosis": "Acute and Subacute Iridocyclitis"]
union ["Diagnosis": "Amblyopia"]
union ["Diagnosis": "Burn Confined to Eye and Adnexa"]
union ["Diagnosis": "Cataract Secondary to Ocular Disorders"]
union ["Diagnosis": "Cataract, Congenital"]
union ["Diagnosis": "Cataract, Mature or Hypermature"]
union ["Diagnosis": "Cataract, Posterior Polar"]
union ["Diagnosis": "Central Corneal Ulcer"]
union ["Diagnosis": "Certain Types of Iridocyclitis"]
union ["Diagnosis": "Choroidal Degenerations"]
union ["Diagnosis": "Choroidal Detachment"]
union ["Diagnosis": "Choroidal Hemorrhage and Rupture"]
union ["Diagnosis": "Chronic Iridocyclitis"]
union ["Diagnosis": "Cloudy Cornea"]
union ["Diagnosis": "Corneal Edema"]
union ["Diagnosis": "Corneal Opacity and Other Disorders of Cornea"]
union ["Diagnosis": "Degeneration of Macula and Posterior Pole"]
union ["Diagnosis": "Degenerative Disorders of Globe"]
union ["Diagnosis": "Diabetic Macular Edema"]
union ["Diagnosis": "Diabetic Retinopathy"]
union ["Diagnosis": "Disorders of Optic Chiasm"]
union ["Diagnosis": "Disorders of Visual Cortex"]
union ["Diagnosis": "Disseminated Chorioretinitis and Disseminated Retinochoroiditis"]
union ["Diagnosis": "Focal Chorioretinitis and Focal Retinochoroiditis"]
union ["Diagnosis": "Glaucoma"]
union ["Diagnosis": "Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes"]
union ["Diagnosis": "Hereditary Choroidal Dystrophies"]
union ["Diagnosis": "Hereditary Corneal Dystrophies"]
union ["Diagnosis": "Hereditary Retinal Dystrophies"]
union ["Diagnosis": "Hypotony of Eye"]
union ["Diagnosis": "Injury to Optic Nerve and Pathways"]
union ["Diagnosis": "Macular Scar of Posterior Polar"]
union ["Diagnosis": "Morgagnian Cataract"]
union ["Diagnosis": "Nystagmus and Other Irregular Eye Movements"]
union ["Diagnosis": "Open Wound of Eyeball"]
union ["Diagnosis": "Optic Atrophy"]
union ["Diagnosis": "Optic Neuritis"]
union ["Diagnosis": "Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis"]
union ["Diagnosis": "Other Background Retinopathy and Retinal Vascular Changes"]
union ["Diagnosis": "Other Disorders of Optic Nerve"]
union ["Diagnosis": "Other Endophthalmitis"]
union ["Diagnosis": "Other Proliferative Retinopathy"]
union ["Diagnosis": "Pathologic Myopia"]
union ["Diagnosis": "Posterior Lenticonus"]
union ["Diagnosis": "Prior Penetrating Keratoplasty"]
union ["Diagnosis": "Purulent Endophthalmitis"]
union ["Diagnosis": "Retinal Detachment with Retinal Defect"]
union ["Diagnosis": "Retinal Vascular Occlusion"]
union ["Diagnosis": "Retrolental Fibroplasias"]
union ["Diagnosis": "Scleritis and Episcleritis"]
union ["Diagnosis": "Separation of Retinal Layers"]
union ["Diagnosis": "Traumatic Cataract"]
union ["Diagnosis": "Uveitis"]
union ["Diagnosis": "Vascular Disorders of Iris and Ciliary Body"]
union ["Diagnosis": "Visual Field Defects"]) ComorbidDiagnosis
such that ComorbidDiagnosis.prevalencePeriod overlaps before CataractSurgeryPerformed.relevantPeriod

Initial Population

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed
with ["Patient Characteristic Birthdate": "Birth date"] BirthDate
such that Global."CalendarAgeInYearsAt" (BirthDate.birthDatetime, start of "Measurement Period") >= 18

Numerator

"Cataract Surgery Between January and September of Measurement Period" CataractSurgeryPerformed
with (["Physical Exam, Performed": "Best corrected visual acuity (observable entity)"]
union ["Physical Exam, Performed": "Best Corrected Visual Acuity Exam Using Snellen Chart"]) VisualAcuityExamPerformed
such that VisualAcuityExamPerformed.relevantDatetime 90 days or less after day of
end of CataractSurgeryPerformed.relevantPeriod
and VisualAcuityExamPerformed.result in "Visual Acuity 20/40 or Better"

SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

SDE Payer

["Patient Characteristic Payer": "Payer"]

SDE Race

["Patient Characteristic Race": "Race"]

SDE Sex

["Patient Characteristic Sex": "ONC Administrative Sex"]

Functions

▲ Global.CalendarAgeInYearsAt(BirthDateTime DateTime, AsOf DateTime)

years between ToDate(BirthDateTime)and ToDate(AsOf)

▲ Global.ToDate(Value DateTime)

DateTime(year from Value, month from Value, day from Value, 0, 0, 0, 0, timezoneoffset from Value)

Terminology

- code "Best corrected visual acuity (observable entity)" ("SNOMEDCT Code (419775003)")
- code "Birth date" ("LOINC Code (21112-8)")
- valueset "Acute and Subacute Iridocyclitis" (2.16.840.1.113883.3.526.3.1241)
- valueset "Amblyopia" (2.16.840.1.113883.3.526.3.1448)
- valueset "Best Corrected Visual Acuity Exam Using Snellen Chart" (2.16.840.1.113883.3.526.3.1560)
- valueset "Burn Confined to Eye and Adnexa" (2.16.840.1.113883.3.526.3.1409)
- valueset "Cataract Secondary to Ocular Disorders" (2.16.840.1.113883.3.526.3.1410)
- valueset "Cataract Surgery" (2.16.840.1.113883.3.526.3.1411)
- valueset "Cataract, Congenital" (2.16.840.1.113883.3.526.3.1412)
- valueset "Cataract, Mature or Hypermature" (2.16.840.1.113883.3.526.3.1413)
- valueset "Cataract, Posterior Polar" (2.16.840.1.113883.3.526.3.1414)
- valueset "Central Corneal Ulcer" (2.16.840.1.113883.3.526.3.1428)
- valueset "Certain Types of Iridocyclitis" (2.16.840.1.113883.3.526.3.1415)
- valueset "Choroidal Degenerations" (2.16.840.1.113883.3.526.3.1450)
- valueset "Choroidal Detachment" (2.16.840.1.113883.3.526.3.1451)
- valueset "Choroidal Hemorrhage and Rupture" (2.16.840.1.113883.3.526.3.1452)
- valueset "Chronic Iridocyclitis" (2.16.840.1.113883.3.526.3.1416)
- valueset "Cloudy Cornea" (2.16.840.1.113883.3.526.3.1417)
- valueset "Corneal Edema" (2.16.840.1.113883.3.526.3.1418)
- valueset "Corneal Opacity and Other Disorders of Cornea" (2.16.840.1.113883.3.526.3.1419)
- valueset "Degeneration of Macula and Posterior Pole" (2.16.840.1.113883.3.526.3.1453)
- valueset "Degenerative Disorders of Globe" (2.16.840.1.113883.3.526.3.1454)
- valueset "Diabetic Macular Edema" (2.16.840.1.113883.3.526.3.1455)
- valueset "Diabetic Retinopathy" (2.16.840.1.113883.3.526.3.327)
- valueset "Disorders of Optic Chiasm" (2.16.840.1.113883.3.526.3.1457)
- valueset "Disorders of Visual Cortex" (2.16.840.1.113883.3.526.3.1458)
- valueset "Disseminated Chorioretinitis and Disseminated Retinochoroiditis" (2.16.840.1.113883.3.526.3.1459)
- valueset "Ethnicity" (2.16.840.1.114222.4.11.837)
- valueset "Focal Chorioretinitis and Focal Retinochoroiditis" (2.16.840.1.113883.3.526.3.1460)
- valueset "Glaucoma" (2.16.840.1.113883.3.526.3.1423)
- valueset "Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes" (2.16.840.1.113883.3.526.3.1461)
- valueset "Hereditary Choroidal Dystrophies" (2.16.840.1.113883.3.526.3.1462)
- valueset "Hereditary Corneal Dystrophies" (2.16.840.1.113883.3.526.3.1424)
- valueset "Hereditary Retinal Dystrophies" (2.16.840.1.113883.3.526.3.1463)
- valueset "Hypotony of Eye" (2.16.840.1.113883.3.526.3.1426)
- valueset "Injury to Optic Nerve and Pathways" (2.16.840.1.113883.3.526.3.1427)
- valueset "Macular Scar of Posterior Polar" (2.16.840.1.113883.3.526.3.1559)
- valueset "Morgagnian Cataract" (2.16.840.1.113883.3.526.3.1558)
- valueset "Nystagmus and Other Irregular Eye Movements" (2.16.840.1.113883.3.526.3.1465)
- valueset "ONC Administrative Sex" (2.16.840.1.113762.1.4.1)
- valueset "Open Wound of Eyeball" (2.16.840.1.113883.3.526.3.1430)
- valueset "Optic Atrophy" (2.16.840.1.113883.3.526.3.1466)
- valueset "Optic Neuritis" (2.16.840.1.113883.3.526.3.1467)
- valueset "Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis" (2.16.840.1.113883.3.526.3.1468)
- valueset "Other Background Retinopathy and Retinal Vascular Changes" (2.16.840.1.113883.3.526.3.1469)
- valueset "Other Disorders of Optic Nerve" (2.16.840.1.113883.3.526.3.1471)
- valueset "Other Endophthalmitis" (2.16.840.1.113883.3.526.3.1473)
- valueset "Other Proliferative Retinopathy" (2.16.840.1.113883.3.526.3.1480)
- valueset "Pathologic Myopia" (2.16.840.1.113883.3.526.3.1432)
- valueset "Payer" (2.16.840.1.114222.4.11.3591)
- valueset "Posterior Lenticulus" (2.16.840.1.113883.3.526.3.1433)
- valueset "Prior Penetrating Keratoplasty" (2.16.840.1.113883.3.526.3.1475)
- valueset "Purulent Endophthalmitis" (2.16.840.1.113883.3.526.3.1477)
- valueset "Race" (2.16.840.1.114222.4.11.836)
- valueset "Retinal Detachment with Retinal Defect" (2.16.840.1.113883.3.526.3.1478)
- valueset "Retinal Vascular Occlusion" (2.16.840.1.113883.3.526.3.1479)
- valueset "Retrolental Fibroplasias" (2.16.840.1.113883.3.526.3.1438)
- valueset "Scleritis and Episcleritis" (2.16.840.1.113883.3.526.3.1481)
- valueset "Separation of Retinal Layers" (2.16.840.1.113883.3.526.3.1482)
- valueset "Traumatic Cataract" (2.16.840.1.113883.3.526.3.1443)
- valueset "Uveitis" (2.16.840.1.113883.3.526.3.1444)
- valueset "Vascular Disorders of Iris and Ciliary Body" (2.16.840.1.113883.3.526.3.1445)
- valueset "Visual Acuity 20/40 or Better" (2.16.840.1.113883.3.526.3.1483)
- valueset "Visual Field Defects" (2.16.840.1.113883.3.526.3.1446)

Data Criteria (ODM Data Elements)

- "Diagnosis: Acute and Subacute Iridocyclitis" using "Acute and Subacute Iridocyclitis (2.16.840.1.113883.3.526.3.1241)"
- "Diagnosis: Amblyopia" using "Amblyopia (2.16.840.1.113883.3.526.3.1448)"
- "Diagnosis: Burn Confined to Eye and Adnexa" using "Burn Confined to Eye and Adnexa (2.16.840.1.113883.3.526.3.1409)"
- "Diagnosis: Cataract Secondary to Ocular Disorders" using "Cataract Secondary to Ocular Disorders (2.16.840.1.113883.3.526.3.1410)"
- "Diagnosis: Cataract, Congenital" using "Cataract, Congenital (2.16.840.1.113883.3.526.3.1412)"
- "Diagnosis: Cataract, Mature or Hypermature" using "Cataract, Mature or Hypermature (2.16.840.1.113883.3.526.3.1413)"
- "Diagnosis: Cataract, Posterior Polar" using "Cataract, Posterior Polar (2.16.840.1.113883.3.526.3.1414)"
- "Diagnosis: Central Corneal Ulcer" using "Central Corneal Ulcer (2.16.840.1.113883.3.526.3.1428)"
- "Diagnosis: Certain Types of Iridocyclitis" using "Certain Types of Iridocyclitis (2.16.840.1.113883.3.526.3.1415)"
- "Diagnosis: Choroidal Degenerations" using "Choroidal Degenerations (2.16.840.1.113883.3.526.3.1450)"
- "Diagnosis: Choroidal Detachment" using "Choroidal Detachment (2.16.840.1.113883.3.526.3.1451)"
- "Diagnosis: Choroidal Hemorrhage and Rupture" using "Choroidal Hemorrhage and Rupture (2.16.840.1.113883.3.526.3.1452)"
- "Diagnosis: Chronic Iridocyclitis" using "Chronic Iridocyclitis (2.16.840.1.113883.3.526.3.1416)"
- "Diagnosis: Cloudy Cornea" using "Cloudy Cornea (2.16.840.1.113883.3.526.3.1417)"

- "Diagnosis: Corneal Edema" using "Corneal Edema (2.16.840.1.113883.3.526.3.1418)"
- "Diagnosis: Corneal Opacity and Other Disorders of Cornea" using "Corneal Opacity and Other Disorders of Cornea (2.16.840.1.113883.3.526.3.1419)"
- "Diagnosis: Degeneration of Macula and Posterior Pole" using "Degeneration of Macula and Posterior Pole (2.16.840.1.113883.3.526.3.1453)"
- "Diagnosis: Degenerative Disorders of Globe" using "Degenerative Disorders of Globe (2.16.840.1.113883.3.526.3.1454)"
- "Diagnosis: Diabetic Macular Edema" using "Diabetic Macular Edema (2.16.840.1.113883.3.526.3.1455)"
- "Diagnosis: Diabetic Retinopathy" using "Diabetic Retinopathy (2.16.840.1.113883.3.526.3.327)"
- "Diagnosis: Disorders of Optic Chiasm" using "Disorders of Optic Chiasm (2.16.840.1.113883.3.526.3.1457)"
- "Diagnosis: Disorders of Visual Cortex" using "Disorders of Visual Cortex (2.16.840.1.113883.3.526.3.1458)"
- "Diagnosis: Disseminated Chorioretinitis and Disseminated Retinochoroiditis" using "Disseminated Chorioretinitis and Disseminated Retinochoroiditis (2.16.840.1.113883.3.526.3.1459)"
- "Diagnosis: Focal Chorioretinitis and Focal Retinochoroiditis" using "Focal Chorioretinitis and Focal Retinochoroiditis (2.16.840.1.113883.3.526.3.1460)"
- "Diagnosis: Glaucoma" using "Glaucoma (2.16.840.1.113883.3.526.3.1423)"
- "Diagnosis: Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes" using "Glaucoma Associated with Congenital Anomalies, Dystrophies, and Systemic Syndromes (2.16.840.1.113883.3.526.3.1461)"
- "Diagnosis: Hereditary Choroidal Dystrophies" using "Hereditary Choroidal Dystrophies (2.16.840.1.113883.3.526.3.1462)"
- "Diagnosis: Hereditary Corneal Dystrophies" using "Hereditary Corneal Dystrophies (2.16.840.1.113883.3.526.3.1424)"
- "Diagnosis: Hereditary Retinal Dystrophies" using "Hereditary Retinal Dystrophies (2.16.840.1.113883.3.526.3.1463)"
- "Diagnosis: Hypotony of Eye" using "Hypotony of Eye (2.16.840.1.113883.3.526.3.1426)"
- "Diagnosis: Injury to Optic Nerve and Pathways" using "Injury to Optic Nerve and Pathways (2.16.840.1.113883.3.526.3.1427)"
- "Diagnosis: Macular Scar of Posterior Polar" using "Macular Scar of Posterior Polar (2.16.840.1.113883.3.526.3.1559)"
- "Diagnosis: Morgagnian Cataract" using "Morgagnian Cataract (2.16.840.1.113883.3.526.3.1558)"
- "Diagnosis: Nystagmus and Other Irregular Eye Movements" using "Nystagmus and Other Irregular Eye Movements (2.16.840.1.113883.3.526.3.1465)"
- "Diagnosis: Open Wound of Eyeball" using "Open Wound of Eyeball (2.16.840.1.113883.3.526.3.1430)"
- "Diagnosis: Optic Atrophy" using "Optic Atrophy (2.16.840.1.113883.3.526.3.1466)"
- "Diagnosis: Optic Neuritis" using "Optic Neuritis (2.16.840.1.113883.3.526.3.1467)"
- "Diagnosis: Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis" using "Other and Unspecified Forms of Chorioretinitis and Retinochoroiditis (2.16.840.1.113883.3.526.3.1468)"
- "Diagnosis: Other Background Retinopathy and Retinal Vascular Changes" using "Other Background Retinopathy and Retinal Vascular Changes (2.16.840.1.113883.3.526.3.1469)"
- "Diagnosis: Other Disorders of Optic Nerve" using "Other Disorders of Optic Nerve (2.16.840.1.113883.3.526.3.1471)"
- "Diagnosis: Other Endophthalmitis" using "Other Endophthalmitis (2.16.840.1.113883.3.526.3.1473)"
- "Diagnosis: Other Proliferative Retinopathy" using "Other Proliferative Retinopathy (2.16.840.1.113883.3.526.3.1480)"
- "Diagnosis: Pathologic Myopia" using "Pathologic Myopia (2.16.840.1.113883.3.526.3.1432)"
- "Diagnosis: Posterior Lenticonus" using "Posterior Lenticonus (2.16.840.1.113883.3.526.3.1433)"
- "Diagnosis: Prior Penetrating Keratoplasty" using "Prior Penetrating Keratoplasty (2.16.840.1.113883.3.526.3.1475)"
- "Diagnosis: Purulent Endophthalmitis" using "Purulent Endophthalmitis (2.16.840.1.113883.3.526.3.1477)"
- "Diagnosis: Retinal Detachment with Retinal Defect" using "Retinal Detachment with Retinal Defect (2.16.840.1.113883.3.526.3.1478)"
- "Diagnosis: Retinal Vascular Occlusion" using "Retinal Vascular Occlusion (2.16.840.1.113883.3.526.3.1479)"
- "Diagnosis: Retrolental Fibroplasias" using "Retrolental Fibroplasias (2.16.840.1.113883.3.526.3.1438)"
- "Diagnosis: Scleritis and Episcleritis" using "Scleritis and Episcleritis (2.16.840.1.113883.3.526.3.1481)"
- "Diagnosis: Separation of Retinal Layers" using "Separation of Retinal Layers (2.16.840.1.113883.3.526.3.1482)"
- "Diagnosis: Traumatic Cataract" using "Traumatic Cataract (2.16.840.1.113883.3.526.3.1443)"
- "Diagnosis: Uveitis" using "Uveitis (2.16.840.1.113883.3.526.3.1444)"
- "Diagnosis: Vascular Disorders of Iris and Ciliary Body" using "Vascular Disorders of Iris and Ciliary Body (2.16.840.1.113883.3.526.3.1445)"
- "Diagnosis: Visual Field Defects" using "Visual Field Defects (2.16.840.1.113883.3.526.3.1446)"
- "Patient Characteristic Birthdate: Birth date" using "Birth date (LOINC Code 21112-8)"
- "Patient Characteristic Ethnicity: Ethnicity" using "Ethnicity (2.16.840.1.114222.4.11.837)"
- "Patient Characteristic Payer: Payer" using "Payer (2.16.840.1.114222.4.11.3591)"
- "Patient Characteristic Race: Race" using "Race (2.16.840.1.114222.4.11.836)"
- "Patient Characteristic Sex: ONC Administrative Sex" using "ONC Administrative Sex (2.16.840.1.113762.1.4.1)"
- "Physical Exam, Performed: Best corrected visual acuity (observable entity)" using "Best corrected visual acuity (observable entity) (SNOMEDCT Code 419775003)"
- "Physical Exam, Performed: Best Corrected Visual Acuity Exam Using Snellen Chart" using "Best Corrected Visual Acuity Exam Using Snellen Chart (2.16.840.1.113883.3.526.3.1560)"
- "Procedure, Performed: Cataract Surgery" using "Cataract Surgery (2.16.840.1.113883.3.526.3.1411)"

Supplemental Data Elements

▲ SDE Ethnicity

["Patient Characteristic Ethnicity": "Ethnicity"]

▲ SDE Payer

["Patient Characteristic Payer": "Payer"]

▲ SDE Race

["Patient Characteristic Race": "Race"]

▲ SDE Sex

["Patient Characteristic Sex": "ONC Administrative Sex"]

Risk Adjustment Variables

None

Measure Set	None
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