



The **ROYAL COLLEGE** of
OPHTHALMOLOGISTS

Clinical Dataset

Glaucoma procedure

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1. Introduction

A dataset comprises a set of defined variables representing clinical information about a patient with a given condition. Royal College of Ophthalmologists' datasets already exist for conditions including cataract, macular degeneration, and retinal detachment. Collection of agreed datasets allows comparison of outcomes across different platforms, including paper notes, proprietary electronic patient records and open-source databases. The benefits of this approach have already been seen in the national cataract dataset.

This document describes a proposed dataset for capturing the outcomes of intraocular pressure (IOP) lowering procedures. The dataset was developed by a subcommittee of the Royal College of Ophthalmologists Informatics and Audit Sub-committee in collaboration with the United Kingdom and Eire Glaucoma Society (UKEGS) and the European Glaucoma Society (EGS). A final draft of the dataset was sent to all members of UKEGS for comment and was further refined at the 2023 EGS members meeting.

2. Application

The purpose of this dataset is to represent an agreed set of clinical information which can be collected on patients undergoing IOP lowering procedures (surgical or laser procedures). As well as defining the items to be collected, the dataset also describes the data type for each clinical variable. Each item is categorised according to the scheme in the following table.

Category	
Mandatory	Data items which are essential for all applications, and must be collected
Desirable	Advised as valuable for audit or knowledge extraction purposes
Optional	Data items which are required for some applications, and may be collected

3. Scope

This dataset applies to patients undergoing surgical or laser IOP lowering procedures for glaucoma or ocular hypertension, including trabeculectomy, glaucoma drainage device surgery, non-penetrating glaucoma surgery, other bleb-forming surgeries, minimally invasive glaucoma surgery (MIGS), cyclodiode laser, and selective laser trabeculoplasty (SLT). The dataset also applies to bleb needling and bleb revision procedures aiming to lower IOP undertaken 12 months or more after the initial glaucoma surgery. Needling and bleb revision procedures undertaken within 12 months of the initial surgery should not be included as index procedures. Re-operations for complications of glaucoma surgery should also not be included as index procedures. The primary aim is to measure the efficacy of IOP lowering procedures. The dataset captures information on the operated eye only (index eye).

4. Principles

The data set is designed to comply with the following principles.

1. The data set should be a subset of information routinely collected

The intention is not to burden already busy clinicians with additional work, so the data set should be constructed of items that are, or should be, recorded as part of the routine clinical management of the patient.

2. Items not required for likely analysis should be excluded

The collection of data requires time and effort, and therefore the total number of items should be kept to a minimum. The range of analyses likely to be conducted on the data is largely predictable, and items not required for these analyses should be excluded.

3. Items in common with other College data sets should be congruent

Several data items (for example visual acuity, IOP) will be common to other ophthalmic data sets. It makes sense to ensure that only one definition for each item is used throughout all data sets, particularly within a subspecialty.

4. The data set should be capable of implementation in an electronic patient record

It is likely that the maximum benefit of the data set will only be achieved when information is being routinely collected using electronic patient record systems. It is therefore essential that it is capable of being implemented electronically.

5. Data types

Each item of the data set has a data type, from the list below. These correspond to data types available in most relational database management systems (RDMS), which generally form the core of EPR systems.

Type	Description
NULL	A special entity representing an uncertain or unassigned value.
INTEGER	An integer value, normally unsigned (i.e. zero or positive values)
FLOAT	A floating-point value, positive or negative
BOOL	A value representing true or false
STRING	A value containing text (alphanumeric data) of unspecified length
ENUM	A value which represents one of a limited range of values
DATE	A value representing a date
DATETIME	A value representing a date and time

6. Glaucoma procedure dataset

Item	Description	Values/ Format
Patient ID	An identifier which will uniquely identify the patient. In England and Wales this could be the NHS number and in Scotland the CHI number. This would be removed in anonymised data sets.	INTEGER
Year of birth	Patient's year of birth	INTEGER
Sex	Patient's Sex	ENUM (Male, Female)
Consultant	Identifier for consultant in charge of patient (to allow individual audits)	INTEGER
Ethnic category	The ethnicity of the patient using the classification used for the 2011 census.	ENUM (British, Irish, Any other White background, White and Black Caribbean, White and Black African, White, and Asian, Any other mixed background, Indian, Pakistani, Bangladeshi, Any other Asian background, Caribbean, African, Any other Black background, Chinese, Any other ethnic.

7. Pre-operative data

Preoperative data should be obtained from the visit immediately prior to or including the date of surgery. A 'look-back period' of up to 12 months from the date of surgery is permitted, with the most recent result used for each test. Data will only be collected for the index eye.

Item	Description	Values/ Format
Pre-operative data		
Eye Laterality	Eye undergoing surgery (index eye)	ENUM (Right, Left)
Type of glaucoma	Type of glaucoma in index eye	ENUM (See Appendix 1 - glaucoma preferred SNOMED terms)
Visual acuity	Best recorded acuity in index eye	Visual acuity
Ocular co-pathology	Ocular co-pathology (same categories used for cataract dataset)	ENUM (Corneal pathology, Uveitis, Vitreous opacification, diabetic retinopathy, age related macular degeneration, other macular pathology, retinal vascular occlusion, no view of fundus, optic nerve/CNS disease, Amblyopia (in eye for surgery), Other(specify))
Prior refraction	Estimated refractive error in index eye prior to any form of refractive or cataract surgery. Look back period of any duration permitted.	ENUM (Myopia, Emmetropia, Hypermetropia)
Refraction	Refractive error in index eye prior to any form of refractive or cataract as spherical equivalent. Look back period of any duration permitted.	FLOAT
Axial length	Axial length of index eye (mm) Look back period of any duration permitted.	FLOAT
CCT	Central corneal thickness in index eye (um). Look back period of any duration permitted.	INTEGER
Anticoagulation	Use of anticoagulation (warfarin, any NOAC, heparin, any LMWH, clopidogrel, dipyridamole, but EXCLUDING aspirin)	BOOL (TRUE OR FALSE)
Previous ocular surgery		
Date of cataract surgery	If pseudophakic or aphakic, date of previous cataract surgery to index eye. Date of surgery will coincide with the date of glaucoma surgery if performed as a combined procedure.	DATE or NULL

Lens	Status of lens in index eye	ENUM (Phakic, Phakic cataract, Aphakic, Aphakic Soemmerring ring, PC IOL, AC IOL, Phakic IOL, Angle supported IOL, Iris clip IOL)
Date of previous glaucoma procedures	Date of previous glaucoma surgery to index eye	DATE or NULL
Class of previous glaucoma procedure	Class of any previous glaucoma procedures to index eye (See Appendix 2 for further explanation of categories)	ENUM(None, trabeculectomy and related surgery, microshunts, aqueous shunts, non-penetrating glaucoma surgery, suprachoroidal drainage surgery, canal-based surgery, angle surgery, trabecular meshwork laser, iris laser, ciliary body surgery or laser)
Specific previous glaucoma procedures	Specific previous glaucoma procedures to index eye	ENUM (See Appendix 2 - Glaucoma procedures)
Other previous eye surgery	Any other previous non-glaucoma surgery to index eye	ENUM (list of other eye operations)
Pre-op IOP		
Date of IOP	Date of most recent IOP measurement in index eye during look back period from date of surgery (must match date of medications)	DATE
IOP measurement method	Device used for tonometry for pre-op measurement	ENUM (applanation tonometer, ocular response analyzer, rebound tonometer, Tonopen, Pneumotonometer, other non-contact tonometer)
IOP index eye	Intraocular pressure in mmHg (IOPg should be used if using ocular response analyzer)	FLOAT
Number of topical glaucoma medications	Number of individual topical glaucoma medications taken to index eye (fixed dose combinations count as two medications)	INTEGER
Medication date	Date of medication number (must match date of IOP)	DATE
Oral acetazolamide	Was the patient taking oral acetazolamide on day of or day prior to IOP assessment?	BOOL (TRUE OR FALSE)
Peak IOP	Highest known IOP in index eye prior to surgery (in mmHg)	FLOAT
Date peak IOP	Date of peak IOP	DATE
Visual Fields		
Date of visual field	Date of most recent automated threshold visual field in index eye during look back period from date of surgery	DATE or NULL

VF test strategy	Visual field test strategy	ENUM (Humphrey SITA Standard 24-2, Humphrey SITA Fast 24-2, Humphrey SITA Faster 24-2, Humphrey SITA Standard 10-2, Humphrey SITA Fast 10-2, Humphrey SITA Faster 10-2, Other(specify))
Mean Deviation	Visual field mean deviation	FLOAT
Visual Field Index	Visual field index	FLOAT
VF False positives (%)	Visual field false positive percentage	INTEGER
Other tests		
Date of Optic Disc OCT	Date of most recent OCT RNFL in index eye during look back period from date of surgery	DATE or NULL
OCT device	Type of OCT device	ENUM (Topcon, Heidelberg, Ziess, Other)
Average RNFL thickness (microns)	Average RNFL thickness from OCT in index eye	FLOAT
Date of specular microscopy	Date of most recent specular microscopy in index eye	DATE or NULL
Corneal endothelial cell density	Central endothelial cell density measured by specular microscopy (cells/mm ²)	INTEGER

8. Operation note

Common elements

Item	Description	Values/ Format
Admission type	Type of admission	ENUM (Outpatient, Day case, Inpatient)
Date	Date of surgery	DATE
Surgeon	Identifier for primary surgeon (to allow individual audits)	INTEGER
Surgeon grade	Grade of primary surgeon	ENUM (Consultant, Fellow, Specialist Registrar, other)
Anaesthetic	Type of anaesthetic	ENUM (Topical, Peribulbar, SubTenon, General, LAS) – allow more than one type

Surgery note

Item	Description	Values/ Format
Glaucoma procedure performed	Glaucoma procedure performed	ENUM (See Appendix 2 - Glaucoma procedures)
IOP lowering revision glaucoma surgery	Is this procedure a revision of a previous glaucoma procedure and does it aim to lower IOP? Answer no if primary procedure or surgery is not at primary site, e.g. answer no for second trabeculectomy in same eye.	BOOL (TRUE OR FALSE)
Mitomycin C (MMC)	Was MMC used intraoperatively?	BOOL (TRUE OR FALSE)
MMC concentration	If used, concentration of MMC (in mg/ml)	FLOAT
MMC duration	If used, MMC duration	ENUM (1 minute, 2 minutes, 3 minutes, 4 minutes, 5 minutes, subconjunctival injection)
5- Fluorouracil (5FU)	Was 5FU used intraoperatively?	BOOL (TRUE OR FALSE)
5-FU concentration	If used, concentration of 5FU (in mg/ml)	FLOAT
Other anti-scarring treatment at time of surgery	Was any other anti-scarring treatment used at the time of surgery? E.g. beta-irradiation	ENUM(beta-irradiation, anti-VEGF, other)
Lens surgery	Was the glaucoma procedure combined with cataract surgery?	BOOL (TRUE OR FALSE)
Cataract surgery complications	Unplanned events occurring during cataract surgery that in the opinion of the operating surgeon would potentially adversely affect the outcome	ENUM (Phaco wound burn, corneal oedema, iris damage/trauma, iris prolapse, hyphaema, simple zonule dialysis, zonule rupture no vitreous loss, zonule rupture with vitreous loss, PC rupture no vitreous loss, PC rupture with vitreous loss, lens fragments into vitreous, decentred IOL, IOL into vitreous, IOL exchange, choroidal /expulsive haemorrhage, operation cancelled, other)
Glaucoma surgery intraoperative complications	Unplanned events occurring during glaucoma surgery that in the opinion of the operating surgeon would potentially affect the outcome (for procedures combined with cataract surgery, intraoperative complications related to cataract surgery are recorded separately)	ENUM(conjunctival tear, hyphaema, scleral perforation, vitreous loss, endothelial cell damage, iris damage, lens damage, aqueous misdirection, cyclodialysis cleft, device malposition, device removed, device not inserted, operation cancelled, other)

9. Postoperative data

Postoperative Interventions, complications, and re-operation for glaucoma

(Multiple dates and interventions permissible)

Item	Description	Values/ Format
Postoperative Interventions	Post-operative interventions not classified as complications. <i>Note needling procedures undertaken more than 12 months after initial surgery should be treated as new index procedure.</i>	ENUM (Removal of intraluminal stent from GDD, laser suture lysis, removal of releasable suture, 5-fluorouracil subconjunctival injection, MMC subconjunctival injection, Bevacizumab subconjunctival injection, rTPA intracameral injection, needling < 12 months after initial surgery, anterior chamber reformation performed at slit lamp, paracentesis, re-suture wound, subconjunctival steroid, laser iridotomy, laser iridoplasty, other(specify))
Date of postoperative intervention		DATE or NULL
Postoperative complications		ENUM (See Appendix 3)
Date of postoperative complication	Date complication first noted	DATE or NULL
Reoperation for complication	Additional surgery for glaucoma performed in the operating theatre (or vitreous tap, injection of intravitreal antibiotics performed in any setting).	ENUM(bleb revision for low pressure, bleb revision for high pressure <12 months after initial surgery, bleb revision for exposure, bleb revision for leak, vitreous tap, injection of intravitreal antibiotics, pars plana vitrectomy, drainage of choroidal effusions, removal of device, repositioning of device, strabismus surgery, other(specify))
Re-operation for glaucoma	Additional IOP lowering surgery for glaucoma performed in the operating theatre (or cyclodiode performed in any setting).	ENUM (See Appendix 2 - Glaucoma procedures)
Date of re-operation for glaucoma		DATE or NULL

12-to-24-month window outcomes

12-to-24-month outcome data should be obtained from the first visit after (or including) 12 months, but less than 24 months following surgery. If data are not available for all tests from the same visit, data should be taken from the first visit after (or including) and closest to 12 months but less than 24 months following surgery from which each test is available.

Item	Description	Values/ Format
12-month date	Date of first visit during ≥12 to <24-month window following surgery	DATE
Visual acuity	Best recorded acuity in index eye	Visual acuity
First IOP during ≥12 to <24-month window following surgery		
Date of IOP	Date of first IOP measurement in index eye during ≥12 to <24-month window (must match date of medications)	DATE or NULL
IOP measurement method	Device used for tonometry	ENUM (applanation tonometer, ocular response analyser, rebound tonometer, other non-contact tonometer, Tonopen)
IOP index eye	Intraocular pressure in mmHg (IOPg should be used if using ocular response analyser)	FLOAT
Number of topical glaucoma medications	Number of individual topical glaucoma medications taken to index eye (fixed dose combinations counted as two medications)	INTEGER
Medication date	Date of medication number (must match date of IOP)	DATE or NULL
Oral acetazolamide	Was the patient taking oral acetazolamide on day of or day prior to IOP assessment?	BOOL (TRUE OR FALSE)
First visual field during ≥12 to <24-month window following surgery		
Date of visual field	Date of first 24-2 threshold visual field during ≥12 to <24-month window	DATE or NULL
VF test strategy	Visual field test strategy	ENUM (Humphrey SITA Standard 24-2, Humphrey SITA Fast 24-2, Humphrey SITA Faster 24-2, Humphrey SITA Standard 10-2, Humphrey SITA Fast 10-2, Humphrey SITA Faster 10-2, Other(specify))
Mean Deviation	Visual field mean deviation	FLOAT
Visual Field Index	Visual field index	FLOAT
VF False positives (%)	Visual field false positive percentage	INTEGER
First OCT during ≥12 to <24-month window following surgery		
Date of OCT RNFL scan	Date of first OCT during ≥12 to <24-month window	DATE or NULL
OCT device	Type of OCT device used	ENUM (Topcon, Heidelberg, Zeiss)
Average RNFL thickness from OCT in index eye	Average circumpapillary RNFL thickness	INTEGER
Date of most recent specular microscopy in index eye after and closest to 12 months following surgery	Date of first specular microscopy during ≥12 to <24-month window	DATE or NULL
Central endothelial cell density	Measured by specular microscopy (cells/mm ²)	INTEGER

The same data should be collected during a 24-to-36-month window and annually thereafter.

10. Authors

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- Andrew J Tatham FRCOphth

On behalf of The Royal College of Ophthalmologists Informatics and Audit Sub-committee

Appendix 1. Glaucoma SNOMED diagnosis terms

Disorder	Aetology	Status	Non lateralised term	Lateralised term	Notes	
None			1109141000000102	No evidence of glaucoma (situation)	1296749001	No evidence of glaucoma of left eye
					1296748009	No evidence of glaucoma of right eye
Ocular hypertension	Primary		1110081000000100	Primary ocular hypertension (disorder)	1296752009	Primary ocular hypertension of left eye (disorder)
					1296751002	Primary ocular hypertension of right eye
					1296754005	Primary ocular hypertension of bilateral eyes (disorder)
					1296780006	Ghost cell ocular hypertension of left eye
					1296779008	Ghost cell ocular hypertension of right eye
					1296835001	Bilateral ghost cell ocular hypertension
	Secondary		1285573001	Ghost cell ocular hypertension (disorder)	1296836000	Hemolytic ocular hypertension of left eye
					1296838004	Hemolytic ocular hypertension of right eye
					1296837009	Bilateral haemolytic ocular hypertension
					1296839007	Ocular hypertension of left eye due to anterior segment anomaly
					1296840009	Ocular hypertension of right eye due to anterior segment anomaly
					1296841008	Bilateral ocular hypertension due to anterior segment anomaly
			1286829004	Ocular hypertension due to hemolysis following intraocular hemorrhage (disorder)	1296544008	Ocular hypertension of left eye due to ocular vascular disorder
					1296601002	Ocular hypertension of right eye due to ocular vascular disorder
					1296545009	Bilateral ocular hypertension due to ocular vascular disorder
					1296717001	Ocular hypertension of left eye due to angle recession
					1296718006	Ocular hypertension of right eye due to angle recession
					1296719003	Bilateral ocular hypertension due to angle recession
			1286804005	Ocular hypertension due to anterior segment anomaly (disorder)	1296699007	Ocular hypertension of left eye due to increased episcleral venous pressure
					1296700008	Ocular hypertension of right eye due to increased episcleral venous pressure
					1296701007	Bilateral ocular hypertension due to increased episcleral venous pressure
					1285719009	Ocular hypertension due to ocular vascular disorder (disorder)
					1285572006	Ocular hypertension due to angle recession (disorder)
					1286787007	Ocular hypertension due to increased episcleral venous pressure (disorder)

		1285739008	Ocular hypertension due to intraocular hemorrhage (disorder)	1296702000	Ocular hypertension of left eye due to intraocular haemorrhage	
				1296703005	Ocular hypertension of right eye due to intraocular hemorrhage	
				1296704004	Bilateral ocular hypertension due to intraocular hemorrhage	
		1285575008	Ocular hypertension due to intraocular neoplasm (disorder)	1336216009	Ocular hypertension due to intraocular neoplasm of left eye	Release date 1 June 2024
				1336217000	Ocular hypertension due to intraocular neoplasm of right eye	Release date 1 June 2024
				1336218005	Bilateral ocular hypertension due to intraocular neoplasm	Release date 1 June 2024
		1285707001	Ocular hypertension due to ocular surgery (disorder)	1296619006	Ocular hypertension of left eye due to ocular surgery	
				1296618003	Ocular hypertension of right eye due to ocular surgery	
				1296620000	Bilateral ocular hypertension due to ocular surgery	
		1285719009	Ocular hypertension due to ocular vascular disorder (disorder)	1296544008	Ocular hypertension of left eye due to ocular vascular disorder	
				1296601002	Ocular hypertension of right eye due to ocular vascular disorder	
				1296545009	Bilateral ocular hypertension due to ocular vascular disorder	
		1285731006	Ocular hypertension due to retinal detachment (disorder)	1296484001	Ocular hypertension of left eye due to retinal detachment	
				1296483007	Ocular hypertension of right eye due to retinal detachment	
				1296485000	Bilateral ocular hypertension due to retinal detachment	
		1285579002	Ocular hypertension caused by silicone oil (disorder)	1296478004	Ocular hypertension of left eye caused by silicone oil	
				1295530007	Ocular hypertension of right eye caused by silicone oil	
				1295532004	Bilateral ocular hypertension caused by silicone oil	
		1285740005	Ocular hypertension due to systemic syndrome (disorder)	1295514004	Ocular hypertension of left eye due to systemic syndrome	
				1295515003	Ocular hypertension of right eye due to systemic syndrome	

			1295516002	Bilateral ocular hypertension due to systemic syndrome	
			1295510008	Phacolytic ocular hypertension of left eye	
	1286830009	Ocular hypertension due to disorder of lens (disorder)	1295511007	Phacolytic ocular hypertension of right eye	
			1295512000	Bilateral phacolytic ocular hypertension	
	29538005	Glaucomatocyclitic crisis (disorder)	1296842001	Glaucomatocyclitic crisis of left eye (disorder)	
			1296843006	Glaucomatocyclitic crisis of right eye	
			1296844000	Bilateral glaucomatocyclitic crisis	
	1110121000000102	Ocular hypertension due to aphakia (disorder)	1296690006	Ocular hypertension of left eye due to aphakia	
			1296691005	Ocular hypertension of right eye due to aphakia	
			1296692003	Bilateral ocular hypertension due to aphakia	
	1110131000000100	Ocular hypertension due to neovascularization (disorder)	1296705003	Ocular hypertension of left eye due to neovascularisation	
			1296706002	Ocular hypertension of right eye due to neovascularisation	
			1296711000	Bilateral ocular hypertension due to neovascularisation	
	1110141000000109	Ocular hypertension due to ocular trauma (disorder)	1296613007	Ocular hypertension of left eye due to ocular trauma	
			1296543002	Ocular hypertension of right eye due to ocular trauma	
			1296614001	Bilateral ocular hypertension due to ocular trauma	
	1110101000000106	Ocular hypertension due to pigment dispersion syndrome (disorder)	1296602009	Ocular hypertension of left eye due to pigment dispersion syndrome	
			1296610005	Ocular hypertension of right eye due to pigment dispersion syndrome	
			1296612002	Bilateral ocular hypertension due to pigment dispersion syndrome	
	1110091000000103	Ocular hypertension due to pseudoexfoliation (disorder)	1296616004	Ocular hypertension of left eye due to pseudoexfoliation	
			1296615000	Ocular hypertension of right eye due to pseudoexfoliation	
			1296617008	Bilateral ocular hypertension due to pseudoexfoliation	
	62011000000100		1295531006	Ocular hypertension of left eye caused by corticosteroid	

			1110111000000108	Ocular hypertension caused by corticosteroid (disorder)	1296477009	Ocular hypertension of right eye caused by corticosteroid			
					1296479007	Bilateral ocular hypertension caused by corticosteroid			
					1295508006	Ocular hypertension of left eye due to uveitis			
					1295507001	Ocular hypertension of right eye due to uveitis			
					1295509003	Bilateral ocular hypertension due to uveitis			
					1295498000	Secondary ocular hypertension of left eye	To be used only if above options are not applicable		
			1295500004	Secondary ocular hypertension of right eye					
			Not specified	4210003	Ocular hypertension (disorder)		1295502007	Bilateral secondary ocular hypertension	
							1295493009	Ocular hypertension of left eye	To be used only if above options are not applicable
							1295492004	Ocular hypertension of right eye	
							1295494003	Bilateral ocular hypertension	
			Angle Closure (no glaucoma)	Primary	Suspect	1128111000000103	Primary angle closure suspect (disorder)	1296999005	Primary angle closure suspect of left eye
1296998002	Primary angle closure suspect of right eye								
1297000008	Bilateral primary angle closure suspect								
Acute	1111471000000102	Acute primary angle closure (disorder)			1296986007	Acute primary angle closure of left eye			
					1296987003	Acute primary angle closure of right eye			
					1296989000	Bilateral acute primary angle closure			
Non-acute	1111561000000108	Primary angle closure (disorder)			1297223003	Primary angle closure of left eye			
					1297222008	Primary angle closure of right eye			
					1297224009	Bilateral primary angle closure			
Secondary	Acute	1111521000000100		Acute angle closure due to neovascularization (disorder)	1297245002	Acute angle closure of left eye due to neovascularisation			
					1297246001	Acute angle closure of right eye due to neovascularization			
					1297247005	Bilateral acute angle closure due to neovascularisation			
		1111491000000103		Acute angle closure due to uveitis (disorder)	1297257006	Acute angle closure of left eye due to uveitis			
					1297256002	Acute angle closure of right eye due to uveitis			
					1297258001	Bilateral acute angle closure due to uveitis			
1111511000000106		1297346004		Phacomorphic secondary acute angle closure of left eye					

				Phacomorphic secondary acute angle closure (disorder)	1297345000	Phacomorphic secondary acute angle closure of right eye		
					1297347008	Phacomorphic secondary acute angle closure of bilateral eyes		
			1286844003	Postoperative acute angle closure (disorder)	1297336001	Postoperative acute angle closure of left eye		
					1297335002	Postoperative acute angle closure of right eye		
					1297337005	Bilateral postoperative acute angle closure		
			1285709003	Acute angle closure caused by drug (disorder)	1297226006	Acute angle closure of left eye caused by drug		
					1297225005	Acute angle closure of right eye caused by drug		
					1297227002	Bilateral acute angle closure caused by drug		
			1286832001	Acute angle closure due to congenital malformation of angle of anterior chamber of eye (disorder)	1297260004	Acute angle closure of left eye due to congenital malformation of angle of anterior chamber of left eye		
					1297259009	Acute angle closure of right eye due to congenital malformation of angle of anterior chamber of right eye		
					1297261000	Acute angle closure of bilateral eyes due to congenital malformation of angle of anterior chamber of bilateral eyes		
			1111481000000100	Secondary acute angle closure (disorder)	1297304008	Secondary acute angle closure of left eye	To be used only if above options are not applicable	
					1297303002	Secondary acute angle closure of right eye		
					1297305009	Bilateral secondary acute angle closure		
			Non-acute	1285708006	Angle closure caused by drug (disorder)	1297333009	Angle closure of left eye caused by drug	
						1297332004	Angle closure of right eye caused by drug	
						1297334003	Bilateral angle closure caused by drug	
				1286831008	Angle closure due to congenital malformation of angle of anterior chamber of eye (disorder)	1297340005	Angle closure of left eye due to congenital malformation of angle of anterior chamber of left eye	
						1297339008	Angle closure of right eye due to congenital malformation of angle of anterior chamber of right eye	
						1297341009	Bilateral angle closure due to congenital malformation of angle of anterior chamber of bilateral eyes	
				1286843009		1297056007	Postoperative angle closure of left eye	

				Postoperative angle closure (disorder)	1297054005	Postoperative angle closure of right eye	
					1297058008	Bilateral postoperative angle closure	
			1286851007	Angle-closure due to iridocorneal endothelial syndrome (disorder)	1297023006	Angle closure of left eye due to iridocorneal endothelial syndrome	
					1297022001	Angle closure of right eye due to iridocorneal endothelial syndrome	
					1297024000	Bilateral angle closure due to iridocorneal endothelial syndrome	
			1286853005	Angle-closure due to posterior synechiae (disorder)	1300229003	Secondary angle-closure of left eye - synechial	
					1300227001	Secondary angle-closure of right eye - synechial	
					1300230008	Secondary angle-closure of bilateral eyes - synechial	
			1111551000000105	Angle closure due to neovascularization (disorder)	1297343007	Angle closure of left eye due to neovascularisation	
					1297342002	Angle closure of right eye due to neovascularization	
					1297344001	Bilateral angle closure due to neovascularisation	
			1111541000000107	Angle closure due to uveitis (disorder)	1297061009	Angle closure of left eye due to uveitis	
					1297060005	Angle closure of right eye due to uveitis	
					1297062002	Bilateral angle closure due to uveitis	
			232080006	Plateau iris (disorder)	1296744006	Plateau iris of left eye	
					1296745007	Plateau iris of right eye	
					1296746008	Plateau iris of bilateral eyes	
			1111531000000103	Secondary angle closure (disorder)	1297020009	Secondary angle closure of left eye	To be used only if above options are not applicable
					1297019003	Secondary angle closure of right eye	
					1297021008	Bilateral secondary angle closure	
Not specified	Acute	1111451000000106	Acute angle closure (disorder)	1297002000	Acute angle closure of left eye	To be used only if above options are not applicable	
				1297001007	Acute angle closure of right eye		
				1297004004	Bilateral acute angle closure		
Angle Closure Glaucoma	Primary		Primary angle-closure glaucoma (disorder)	1303339006	Primary angle closure glaucoma of left eye		
				1303338003	Primary angle closure glaucoma of right eye		
				1303340008	Bilateral primary angle closure glaucoma		
	Secondary		1285332001		1285717006	Drug-induced angle closure glaucoma of left eye	

			Angle closure glaucoma caused by drug (disorder)	1285716002	Drug-induced angle closure glaucoma of right eye	
				1285718001	Drug-induced angle closure glaucoma of bilateral eyes	
		193552006	Glaucoma due to congenital malformation of angle of anterior chamber of eye (disorder)	1306787006	Glaucoma of left eye due to congenital chamber angle anomaly	Release date 1 May 2024
				1306782000	Glaucoma of right eye due to congenital chamber angle anomaly	Release date 1 May 2024
				1306789009	Bilateral glaucoma due to congenital chamber angle anomaly	Release date 1 May 2024
		370504007	Aqueous humor misdirect (disorder)	678471000119107	Aqueous humor misdirection of left eye	
				678481000119105	Aqueous humor misdirection of right eye	
				349231000119108	Bilateral aqueous humor misdirection of eyes	
		232086000	Neovascular angle closure glaucoma (disorder)	1331894003	Neovascular angle closure glaucoma of left eye	Release date 1 May 2024
				1331893009	Neovascular angle closure glaucoma of right eye	Release date 1 May 2024
				1331895002	Bilateral neovascular angle closure glaucoma	Release date 1 May 2024
		392300000	Phacomorphic angle closure glaucoma due to disorder of lens (disorder)	1306768000	Phacomorphic glaucoma of left eye	Release date 1 May 2024
				1306778002	Phacomorphic glaucoma of right eye	Release date 1 May 2024
				1306777007	Bilateral phacomorphic angle closure glaucoma	Release date 1 May 2024
		89215000	Postoperative angle-closure glaucoma (disorder)	1304031008	Postoperative angle closure glaucoma of left eye	Release date 1 May 2024
1304033006	Postoperative angle closure glaucoma of right eye			Release date 1 May 2024		
1304032001	Bilateral postoperative angle closure glaucoma			Release date 1 May 2024		

			1137633000	Secondary angle-closure glaucoma due to iridocorneal endothelial syndrome (disorder)	1304267008	Secondary angle-closure glaucoma of left eye due to iridocorneal endothelial syndrome	Release date 1 May 2024
					1304266004	Secondary angle-closure glaucoma of right eye due to iridocorneal endothelial syndrome	Release date 1 May 2024
					1304268003	Bilateral secondary angle-closure glaucoma due to iridocorneal endothelial syndrome	Release date 1 May 2024
					1306329005	Angle closure glaucoma of left eye due to peripheral anterior synechiae	Release date 1 May 2024
					1306328002	Angle closure glaucoma of right eye due to peripheral anterior synechiae	Release date 1 May 2024
					1306330000	Bilateral angle closure glaucoma due to peripheral anterior synechiae	Release date 1 May 2024
			314784002	Angle closure glaucoma due to peripheral anterior synechiae (disorder)	1306332008	Secondary angle closure glaucoma of left eye	To be used only if above options are not applicable
					1306331001	Secondary angle-closure glaucoma of right eye	
					1306333003	Bilateral secondary angle closure glaucoma	
			21571006	Secondary angle-closure glaucoma (disorder)	1306301007	Angle closure glaucoma of left eye	To be used only if above options are not applicable
					1306298008	Angle closure glaucoma of right eye	
					15736721000119106	Bilateral angle-closure glaucoma	
Not specified		392291006	Angle-closure glaucoma (disorder)	1306301007	Angle closure glaucoma of left eye	To be used only if above options are not applicable	
				1306298008	Angle closure glaucoma of right eye		
				15736721000119106	Bilateral angle-closure glaucoma		
Open Angle Glaucoma	Not specified	Suspect	1003614009	Open angle glaucoma suspect (disorder)	1003615005	Open angle glaucoma suspect of left eye	
					1003616006	Open angle glaucoma suspect of right eye	
					1003617002	Open angle glaucoma suspect of bilateral eyes (disorder)	
	Primary	Normal pressure	788995007	Normal pressure primary open-angle glaucoma (disorder)	1306884006	Normal pressure primary open-angle glaucoma of left eye	Release date 1 May 2024
					1306885007	Normal pressure primary open-angle glaucoma of right eye	Release date 1 May 2024
					1306886008	Normal pressure primary open-angle glaucoma of bilateral eyes	Release date 1 May 2024
		Increased pressure	77075001	Primary open angle glaucoma (disorder)	1306287007	Primary open angle glaucoma of left eye	Release date 1 May 2024

				1306288002	Primary open angle glaucoma of right eye	Release date 1 May 2024	
				1306289005	Primary open angle glaucoma of bilateral eyes	Release date 1 May 2024	
Secondary			392352004	Angle recession glaucoma (disorder)	1306868005	Angle recession glaucoma of left eye	Release date 1 May 2024
					1306607000	Angle recession glaucoma of right eye	Release date 1 May 2024
					1306869002	Bilateral angle recession glaucoma	Release date 1 May 2024
			15374009	Secondary glaucoma due to aphakia (disorder)	348811000119108	Aphakic glaucoma of left eye	
					348361000119103	Aphakic glaucoma of right eye	
					349311000119106	Bilateral aphakic glaucoma	
			1285710008	Open angle glaucoma caused by drug (disorder)	1285712000	Drug-induced open angle glaucoma of left eye	
					1285711007	Drug-induced open angle glaucoma of right eye	
					1285713005	Drug-induced open angle glaucoma of bilateral eyes	
			232088004	Ghost cell glaucoma due to and following intraocular hemorrhage (disorder)	1306750003	Ghost cell glaucoma of left eye	Release date 1 May 2024
					1306746005	Ghost cell glaucoma of right eye	Release date 1 May 2024
					1306749003	Bilateral ghost cell glaucoma	Release date 1 May 2024
			45623002	Glaucoma due to anterior segment anomaly (disorder)		Pending input from paediatric specialist	
						Pending input from paediatric specialist	
						Pending input from paediatric specialist	
			193552006	Glaucoma due to congenital malformation of angle of anterior chamber of eye (disorder)	1306787006	Glaucoma of left eye due to congenital chamber angle anomaly	Release date 1 May 2024
1306782000	Glaucoma of right eye due to congenital chamber angle anomaly	Release date 1 May 2024					
1306789009	Bilateral glaucoma due to congenital chamber angle anomaly	Release date 1 May 2024					

		193555008	Open angle glaucoma due to systemic syndrome (disorder)	1303889009	Glaucoma of left eye due to systemic syndrome	Release date 1 May 2024
				1303890000	Glaucoma of right eye due to systemic syndrome	Release date 1 May 2024
				1303891001	Bilateral glaucoma due to systemic syndrome	Release date 1 May 2024
		19309007	Glaucoma due to vascular disorder (disorder)	1303463002	Glaucoma of left eye due to vascular disorder	
				1303464008	Glaucoma of right eye due to vascular disorder	
				1303462007	Bilateral glaucoma due to vascular disorder	
		715144004	Glaucoma caused by silicone oil (disorder)	1303707002	Glaucoma of left eye caused by silicone oil	
				1303702008	Glaucoma of right eye caused by silicone oil	
				1303708007	Bilateral glaucoma caused by silicone oil	
		788947003	Glaucoma due to intraocular neoplasm (disorder)	1303701001	Glaucoma of left eye due to intraocular neoplasm	
				1303706006	Glaucoma of right eye due to intraocular neoplasm	
				1303704009	Bilateral glaucoma due to intraocular neoplasm	
		275477002	Glaucoma due to ocular cyst (disorder)	1336023002	Glaucoma due to cyst of left eye proper	Release date 1 June 2024
				1336022007	Glaucoma due to cyst of right eye proper	Release date 1 June 2024
				1336024008	Bilateral glaucoma due to cyst of eye	Release date 1 June 2024
1335974003	Glaucoma due to cyst of iris (disorder)	1336007002	Glaucoma due to cyst of iris of left eye	Release date 1 June 2024		
		1336008007	Glaucoma due to cyst of iris of right eye	Release date 1 June 2024		
		1336009004	Bilateral glaucoma due to cyst of iris	Release date 1 June 2024		

		1335975002	Glaucoma due to cyst of ciliary body (disorder)	1335982003	Glaucoma due to cyst of ciliary body of left eye	Release date 1 June 2024
				1335980006	Glaucoma due to cyst of ciliary body of right eye	Release date 1 June 2024
				1335985001	Bilateral glaucoma due to cyst of ciliary body	Release date 1 June 2024
		193562004	Glaucoma due to ocular vascular disorder (disorder)	1303455003	Glaucoma of left eye due to ocular vascular disorder	Release date 1 March 2024
				1303454004	Glaucoma of right eye due to ocular vascular disorder	Release date 1 March 2024
				1303456002	Bilateral glaucoma due to ocular vascular disorder	Release date 1 March 2024
		66725002	Glaucoma due to perforating injury (disorder)	1332297002	Glaucoma due to perforating injury of left eye	Release date 1 May 2024
				1332298007	Glaucoma due to perforating injury of right eye	Release date 1 May 2024
				1332299004	Bilateral glaucoma due to perforating injury	Release date 1 May 2024
		788948008	Glaucoma due to retinal detachment (disorder)	1303893003	Glaucoma of left eye due to retinal detachment	Release date 1 May 2024
				1303892008	Glaucoma of right eye due to retinal detachment	Release date 1 May 2024
				1303894009	Bilateral glaucoma due to retinal detachment	Release date 1 May 2024
		193555008	Glaucoma due to systemic syndrome (disorder)	1303889009	Glaucoma of left eye due to systemic syndrome	Release date 1 May 2024
				1303890000	Glaucoma of right eye due to systemic syndrome	Release date 1 May 2024
				1303891001	Bilateral glaucoma due to systemic syndrome	Release date 1 May 2024

		1285335004	Open angle glaucoma due to ocular surgery (disorder)	1306878008	Secondary open angle glaucoma of left eye due to ocular surgery	Release date 1 May 2024
				1306877003	Secondary open angle glaucoma of right eye due to ocular surgery	Release date 1 May 2024
				1306879000	Bilateral secondary open angle glaucoma due to ocular surgery	Release date 1 May 2024
		34623005	Glaucoma with increased episcleral venous pressure (disorder)	678441000119100	Glaucoma of left eye due to increased episcleral venous pressure	
				678451000119103	Glaucoma of right eye due to increased episcleral venous pressure	
				678431000119109	Bilateral glaucoma of eyes due to increased episcleral venous pressure	
		232087009	Glaucoma with intraocular hemorrhage (disorder)	1306873004	Glaucoma of left eye with intraocular hemorrhage	Release date 1 May 2024
				1306874005	Glaucoma of right eye with intraocular hemorrhage	Release date 1 May 2024
				1306875006	Bilateral glaucoma with intraocular haemorrhage	Release date 1 May 2024
		392030001	Glaucoma due to hemolysis following intraocular hemorrhage (disorder)	1304284002	Hemolytic glaucoma of left eye	Release date 1 May 2024
				1304285001	Haemolytic glaucoma of right eye	Release date 1 May 2024
				1304282003	Bilateral haemolytic glaucoma	Release date 1 May 2024
		1111401000000105	Open angle glaucoma due to neovascularization (disorder)	1304035004	Open angle glaucoma of left eye due to neovascularization	Release date 1 May 2024
				1304036003	Open angle glaucoma of right eye due to neovascularisation	Release date 1 May 2024
				1304034000	Bilateral open angle glaucoma due to neovascularization	Release date 1 May 2024
1111391000000107			Open angle glaucoma of left eye due to ocular trauma	Release date 1 May 2024		

			Open angle glaucoma due to ocular trauma (disorder)	1304029004	Open angle glaucoma of right eye due to ocular trauma	Release date 1 May 2024
				1304030009	Bilateral open angle glaucoma due to ocular trauma	Release date 1 May 2024
	32893002		Phacolytic glaucoma (disorder)	338761000119103	Phacolytic glaucoma of left eye	
				333151000119108	Phacolytic glaucoma of right eye	
				344531000119107	Phacolytic glaucoma of bilateral eyes	
	46168003		Pigmentary glaucoma (disorder)	338721000119108	Pigmentary glaucoma of left eye	
				333111000119107	Pigmentary glaucoma of right eye	
				344491000119107	Bilateral pigmentary glaucoma of eyes	
	111514006		Pseudoexfoliation glaucoma (disorder)	338481000119100	Pseudoexfoliation glaucoma of left eye	
				332871000119103	Pseudoexfoliation glaucoma of right eye	
				344251000119103	Bilateral pseudoexfoliation glaucoma of eyes	
	1654001		Open angle glaucoma caused by corticosteroid (disorder)	722321001	Open angle glaucoma of left eye caused by corticosteroid	
				722329004	Open angle glaucoma of right eye caused by corticosteroid	
				721898008	Open angle glaucoma of bilateral eyes caused by corticosteroid	
	314033007		Uveitic glaucoma (disorder)	337081000119109	Uveitic glaucoma of left eye	
				331471000119105	Uveitic glaucoma of right eye	
				343161000119109	Bilateral uveitic glaucoma of eyes	
	392029006		Uveitis-glaucoma-hyphema syndrome (disorder)	1304261009	Uveitis-glaucoma-hyphema syndrome of left eye	Release date 1 May 2024
				1304260005	Uveitis-glaucoma-hyphema syndrome of right eye	Release date 1 May 2024
				15679801000119105	Bilateral uveitis-glaucoma-hyphema syndrome of eyes	Release date 1 May 2024
	21928008		Secondary open-angle glaucoma (disorder)	1303928003	Secondary open-angle glaucoma of left eye	To be used only if above options are not applicable
				1303927008	Secondary open-angle glaucoma of right eye	
				1303929006	Bilateral secondary open-angle glaucoma	
Post-surgical Disorders	370504007		Aqueous humor misdirect (disorder)	678471000119107	Aqueous humor misdirection of left eye	
				678481000119105	Aqueous humor misdirection of right eye	
				349231000119108	Bilateral aqueous humor misdirection of eyes	

	733310006	Conjunctival blebitis following glaucoma surgery (disorder)	1303981006	Conjunctival blebitis of left eye following glaucoma surgery	Release date 1 May 2024
			1303983009	Conjunctival blebitis of right eye following glaucoma surgery	Release date 1 May 2024
			1303984003	Bilateral conjunctival blebitis following glaucoma surgery	Release date 1 May 2024
	1217656003	Dislodgement of plate due to and following glaucoma drainage surgery (disorder)	1303978001	Dislodgement of plate of left eye due to and following glaucoma drainage surgery	Release date 1 May 2024
			1303979009	Dislodgement of plate of right eye due to and following glaucoma drainage surgery	Release date 1 May 2024
			1303980007	Bilateral dislodgement of plates of eyes due to and following glaucoma drainage surgery	Release date 1 May 2024
	1217658002	Dislodgement of tube due to and following glaucoma drainage surgery (disorder)	1303742003	Dislodgement of tube of left eye due to and following glaucoma drainage surgery	
			1303741005	Dislodgement of tube of right eye due to and following glaucoma drainage surgery	
			1303743008	Bilateral dislodgement of tube of eyes due to and following glaucoma surgery	
	1285335004	Open angle glaucoma due to ocular surgery (disorder)	1306878008	Secondary open angle glaucoma of left eye due to ocular surgery	Release date 1 May 2024
			1306877003	Secondary open angle glaucoma of right eye due to ocular surgery	Release date 1 May 2024
			1306879000	Bilateral secondary open angle glaucoma due to ocular surgery	Release date 1 May 2024

Appendix 2. Classification and coding of glaucoma procedures

Category of surgery	Options	Snomed code	OPCS Code
Trabeculectomy and related surgery	Trabeculectomy	30880003	C60.1
	Bleb needling	408763006	C65.1
	Revision of trabeculectomy	314117007	C65.3
	<i>Other or not-specified surgery related to trabeculectomy</i>	N/A	N/A
Microshunts (tubes without plate)	PreserFlo	N/A	N/A
	Xen	N/A	N/A
	<i>Other or not-specified microshunt surgery</i>	N/A	N/A
Aqueous shunts (tube with plate)	Ahmed tube (FP7)	410443005	C60.5
	Ahmed clear path	410444004	C60.5
	Baerveldt 250	410444004	C60.5
	Baerveldt 350	410444004	C60.5
	Paul tube	410444004	C60.5
	Revision of aqueous shunt	440587008	C75.2
	<i>Other or not-specified glaucoma tube shunt insertion</i>	265291005	C60.5
	<i>Other or not-specified aqueous shunt surgery</i>	N/A	N/A
Non-penetrating glaucoma surgery	Deep sclerectomy without spacer	426056001	C52.2
	Deep sclerectomy with spacer	426966006	C52.1
	Viscocanalostomy	31297300	N/A
	<i>Other or not-specified non-penetrating glaucoma surgery</i>	N/A	N/A

Suprachoroidal drainage surgery	Cypass iStar Medial STARflo <i>Other or not-specified suprachoroidal drainage surgery</i>	N/A N/A N/A	N/A N/A N/A
Canal based surgery	iStent / iStent inject / iStent W Hydrus <i>Other or not-specified insertion of bypass stent through trabecular meshwork</i> Kahook Dual Blade Trabectome Trabeculotomy Goniotomy GATT OMNI iTrack Viscocanaloplasty <i>Other canal based glaucoma surgery</i>	819871000000106 819871000000106 819871000000106 265292003 265292003 N/A 265292003 265292003 N/A N/A N/A N/A N/A	C61.- C61.- C61.- C61.3 C61.3 N/A C61.3 C61.3 N/A N/A N/A N/A
Cataract surgery	Clear lens extraction for glaucoma Cataract extraction for any other reason	415282007 110473004	N/A C74.-
Angle surgery	Goniosynechialysis Viscogonioplasty Surgical peripheral iridectomy <i>Other angle surgery</i>	52150005 81198005 265289002 N/A	N/A N/A C62.- N/A
Trabecular meshwork laser	Selective Laser Trabeculoplasty Argon Laser Trabeculoplasty Micropulse Laser Trabeculoplasty Goniotomy <i>Other laser to trabecular meshwork</i>	392028003 404636007 172485001 202727004 N/A	C61.1 C61.1 C61.1 C61.4 N/A

Iris laser	Laser peripheral iridotomy Laser iridoplasty <i>Other or not-specified laser treatment to iris</i>	371345007 424830006 N/A	C62.- C60.4 N/A
Ciliary body surgery or laser	Endoscopic Cyclophotocoagulation (ECP) Micropulse Transscleral Cyclophotocoagulation Transscleral Cyclophotocoagulation (Diode laser) High intensity focussed ultrasound (HiFU) <i>Other or not-specified treatment to ciliary body</i>	35137007 35137007 412733003 143821000000109 N/A	C66.4 C66.4 C66.4 N/A N/A
N/A = Not available currently			

Appendix 3. Postoperative complications

Main complications of glaucoma surgery in bold.

None	Displaced tubes	Injected bleb	Precipitation of exudate	Sympathetic ophthalmia
Accommodative difficulty	Dry cornea	Interface debris	Progression of diabetic retinopathy	Tumour recurrence
Angle closure glaucoma	Dry eye	IOL decentred	Progressive rapid optic neuropathy (wipe out)	Under correction
Anterior capsulophimosi	Early loss of tubes	IOL in vitreous cavity	Punctate keratitis	Unexpected refractive outcome
Anterior segment ischaemia	Ectasia	Iris incarceration in sclerostomy	Pupil block	Visual loss (worse than 6/60 within 6 months of operation)
Bleb dysaesthesia	Encapsulated bleb / Tenons cyst	Iris prolapse	Recurrence of initial problem	Vitreous haemorrhage
Bleb leak	Endophthalmitis	Iris to wound	Reduced colour vision	Vitreous in the AC
Blebitis	Epistaxis	Leaking wound (Seidel +ve)	Reduction in vision	Vitreous prolapse
Burn creep under fovea	Epithelial ingrowth	Loss of field of vision	Retained antimetabolite sponge fragment	Vitreous to the section
Cataract	Exposed scleral buckle	Lost / damaged corneal flap	Retained soft lens matter	Webbing of surgical scar
Central toxic keratopathy	Exposed suture	Lost muscle	Retinal detachment	Wound dehiscence
Cheesewiring of tubes	Exposed Tenon's	Macular fold	Retinal detachment - non rhexmatogenous	Wound infection
Choroidal effusion / detachment	External eye infection	Malignant glaucoma	Retinal tear	Wrong operation performed
Choroidal neovascular membrane	Failure	Micro-striae	Rupture of choroidal neovascular membrane	Not recorded
Chronic fistula	Flap dislocation	Night vision problems	Ruptured section	Glaucoma device migration
Conjunctival recession	Flap folds	Onset or progression of diabetic maculopathy (within 6 months)	Scarring	Cyclodialysis cleft
Corneal decompensation	Flap infection	Other	Scleritis	Bleb dysaesthesia
Corneal epithelial defect	Flat AC: lens-cornea touch	Overcorrection	Shallow AC: iris-cornea touch	Irregular astigmatism
Corneal epithelial staining	Floater after operation	Pain	Silicone oil filling anterior chamber	Conjunctival tear
Corneal graft rejection	Foveal burn	Peripheral anterior synechia	Slipped muscle	Glaucoma device related peripheral anterior synechia
Corneal haze	Giant bleb	Phthisis	Sterile ulcers	Glaucoma device occlusion
Corneal oedema / striae / Descemet's folds	Glare	Poor cosmetic result		
	Globe perforation			
	Graft shrinkage			

<p>Corneal scarring</p> <p>Cystoid macular oedema</p> <p>Decentred ablation</p> <p>Dellen</p> <p>Diffuse lamellar keratitis</p> <p>Dilated pupil</p> <p>Diplopia</p>	<p>Haloes</p> <p>Heavy liquid in the anterior chamber</p> <p>Hyperoleon</p> <p>Hyphaema</p> <p>Hypotonous maculopathy</p> <p>Hypotony</p> <p>Implant or tube exposure</p>	<p>Posterior capsule opacification</p> <p>Posterior capsule opacification - YAG indicated</p> <p>Posterior synaechiae</p> <p>Post-operative eyelid bruising</p> <p>Post-operative eyelid oedema</p> <p>Post-operative ptosis</p> <p>Post-operative uveitis</p>	<p>Suprachoroidal haemorrhage</p> <p>Suture granuloma</p> <p>Suture induced corneal abscess</p>	
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