

Table S2. Concepts and Codes of Ophthalmic Trauma

Concepts	UMLS	SNOMED Code	SNOMED Name	SNOMED Match	ICD-10-CM Code	ICD-10-CM Name	ICD-10 Match	ICD-11	ICD-11 Name	ICD-11 Match	ICD-11 subgroup name	ICD-11 Match
Acute symptomatic atrophic round retinal hole	C0392074	302888003	Retinal round hole	Wide	H33.32	Round hole of retina without detachment	Wide	9B73.4	Retinal breaks without detachment	Wide	No	Wide
Acute symptomatic horseshoe retinal tear	C0154826	193341001	Horseshoe retinal tear without detachment	Wide	H33.31	Horseshoe retina tear of retina without detachment	Wide	9B73.4	Retinal breaks without detachment	Wide	No	Wide
Acute symptomatic operculated retinal hole	C0344275	247167001	Retinal operculated tear	Wide	H33.32	Round hole of retina without detachment	Wide	9B73.4	Retinal breaks without detachment	Wide	No	Wide
Adnexal laceration	C1402105	111689003	Wound of ocular adnexa	Wide	S01.119 / S01.129	Laceration without/with foreign body of unspecified eyelid and periocular area	Equal	NA01.2 / NA01.3	Laceration without/with foreign body of head	Wide	No	Wide
Angle recession	C0154937	664008	Angle recession	Equal	H21.55	Recession of chamber angle	Equal	9A93	Adhesions or disruptions of iris or ciliary body	Subgroup	Recession of chamber angle	Equal
Anterior chamber of the eye foreign body	C2069979	231959000	Foreign body in anterior chamber	Equal	H44.61/71	Retained (old) magnetic foreign body in anterior chamber	Narrow	NA06.2	Retained foreign body following penetrating wound of orbit	Subgroup	Retained foreign body in anterior chamber of the eye	Equal
Anterior dislocation of lens	C0155372	37283009	Anterior dislocation of lens	Equal	H27.12	Anterior dislocation of lens	Equal	9B11.1	Dislocation of lens	Subgroup	Anterior dislocation of lens	Equal
Avulsion of eye	C0004445	12193006	Avulsion of eye	Equal	S05.7	Avulsion of eye	Equal	NA06.85 /86	Avulsion of eye, bilateral/unilateral	Equal	No	Equal
Avulsion of optic nerve head	C0338512	230513000	Avulsion of optic nerve	Equal	S04.01	Injury of optic nerve	Wide	NA06.63	Optic nerve avulsion	Equal	No	Equal
Avulsion of vitreous base	C0423362	247082008	Avulsion of vitreous base	Equal	H43	Disorders of vitreous body	Wide	9B8Y	Other disorder of vitreous body	Wide	No	Wide
Blow-out fracture of orbit	C0347775	263167007	Blow out fracture of orbit	Equal	S02.85	Fracture of orbit	Wide	NA02.21	Orbital fracture	Wide	No	Wide

Chalcosis	C0339036	875001	Chalcosis of eye	Equal	H44.31	Chalcosis	Equal	9B7Y	<i>Other specified disorders of the retina</i>	<i>Subgroup</i>	Chalcosis of retina	Equal
Chemosis of conjunctiva	C0271298	8148005	Chemosis of conjunctiva	Equal	H11.42	Conjunctival edema	Equal	9A61.4Y	<i>Other specified conjunctival vascular disorders</i>	<i>Subgroup</i>	Chemosis of conjunctiva	Equal
Choroidal hemorrhage	C0008522	122003	Choroidal hemorrhage	Equal	H31.3	<i>Choroidal hemorrhage and rupture</i>	<i>Narrow</i>	9B63	Choroidal hemorrhage or rupture	Equal	No	Equal
Choroidal rupture	C0154903	2532009	Choroidal rupture	Equal	H31.32	Choroidal rupture	Equal	NA06.61	Choroidal rupture	Equal	No	Equal
Choroidal rupture and hemorrhage	C0154901	193474002	Choroidal hemorrhage and rupture	Equal	H31.3	Choroidal hemorrhage and rupture	Equal	9B63	Choroidal hemorrhage or rupture	Equal	No	Equal
Closed fracture of orbital floor	C07447052	1.13038E+16	Closed fracture of orbital floor	Equal	S02.30X	<i>Fracture of orbital floor, unspecified side, initial encounter for closed fracture</i>	<i>Narrow</i>	NA02.21	<i>Fracture of orbital floor</i>	<i>Wide</i>	No	<i>Wide</i>
Closed fracture of orbital portion zygomatic bone	C1264251	110019000	Closed fracture of orbital portion of zygomatic bone	Equal	S02.402	<i>Zygomatic fracture, unspecified side, initial encounter for closed fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Closed fracture of orbital rim	C2106155	263170006	<i>Fracture of supraorbital rim</i>	<i>Narrow</i>	S02.85	<i>Fracture of orbit</i>	<i>Wide</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Closed globe injury	C3899529	721329001	Closed injury of eyeball	Equal	S05.90	<i>Unspecified injury of unspecified eye and orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Commotio retinae	C0271054	80744008	Commotio retinae	Equal	S05.8x	Berlin's disease or edema (traumatic)	Equal	NA06.62	Commotio retinae	Equal	No	Equal
Conjunctival contusion	C1393727	21117005	<i>Conjunctival Hemorrhage</i>	<i>Narrow</i>	H11.3	<i>Conjunctival hemorrhage</i>	<i>Narrow</i>	NA06.4	Contusion of conjunctiva	Equal	No	Equal
Conjunctival foreign body	C0339177	231866000	Conjunctival foreign body	Equal	T15.1	Foreign body in conjunctival sac	Equal	ND70.1	Foreign body in conjunctival sac	Equal	No	Equal
Conjunctival laceration	C1562000	417750006	Conjunctival laceration	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Conjunctival wound	C0339176	231865001	Conjunctival wound	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Contusion of eye	C0438624	367423000	Contusion of eye	Equal	S05.10	<i>Contusion of eyeball and orbital tissues, unspecified eye</i>	<i>Narrow</i>	NA06.9	Contusion of eyeball or orbital tissues	Equal	No	Equal
Corneal abrasion	C0010032	85848002	Corneal abrasion	Equal	S05.0	<i>Injury of conjunctiva and</i>	<i>Narrow</i>	NA06.4	<i>Injury of conjunctiva and</i>	<i>Narrow</i>	No	<i>Narrow</i>

						<i>corneal abrasion without foreign body</i>			<i>corneal abrasion without foreign body</i>			
Corneal endothelial wound	C1562639	416952000	Corneal endothelial wound	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.4	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Wide</i>	No	<i>Wide</i>
Corneal epithelial wound	C1563220	416713004	Corneal epithelial wound	Equal	S05.0	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Narrow</i>	NA06.4	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Wide</i>	No	<i>Wide</i>
Corneal erosion	C1393970	50792001	Corneal erosion	Equal	H18.839	<i>Recurrent erosion of cornea, unspecified eye</i>	<i>Narrow</i>	9A78.8	<i>Recurrent erosion of cornea</i>	<i>Subgroup</i>	Corneal erosion	Equal
Corneal foreign body	C0161002	37450000	Corneal foreign body	Equal	T15.0	Foreign body in cornea	Equal	ND70.0	Foreign body in cornea	Equal	No	Equal
Corneal laceration	C0521711	95725002	Corneal laceration	Equal	S05.2	<i>Ocular laceration without prolapse or loss of intraocular tissue</i>	<i>Narrow</i>	NA06.87	<i>Ocular laceration without prolapse or loss of intraocular tissue, unilateral</i>	<i>Narrow</i>	No	<i>Narrow</i>
Corneal perforation	C0339293	74895004	Perforation of cornea	Equal	H16.07	<i>Perforated corneal ulcer(Secondary to both trauma and infection)</i>	<i>Narrow</i>	9A76	<i>Corneal ulcer</i>	<i>Subgroup</i>	Corneal perforation	Equal
Corneal stromal wound	C0423253	246960009	Corneal stromal wound	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.4	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Wide</i>	No	<i>Wide</i>
Corneoscleral laceration	C1562170	416931008	Corneoscleral laceration	Equal	S05.2	<i>Ocular laceration without prolapse or loss of intraocular tissue</i>	<i>Narrow</i>	NA06.87	<i>Ocular laceration without prolapse or loss of intraocular tissue, unilateral</i>	<i>Narrow</i>	No	<i>Narrow</i>
Cyclodialysis	C0197526	231957003	<i>Traumatic cyclodialysis</i>	<i>Narrow</i>	H21.89	<i>Other specific disorder of iris and ciliary body</i>	<i>Wide</i>	9A93	<i>Adhesions or disruptions of iris or ciliary body</i>	<i>Wide</i>	No	<i>Wide</i>
Deep retinal hemorrhage	C0271046	48742005	Deep retinal hemorrhage	Equal	H35.6	<i>Retinal hemorrhage</i>	<i>Wide</i>	9B78.5	<i>Retinal hemorrhage</i>	<i>Wide</i>	No	<i>Wide</i>
Exudative retinal detachment	C0271081	42059000	<i>Retinal detachment</i>	<i>Wide</i>	H33.2	Serous retinal detachment	Equal	9B73.Y	<i>Other specified retinal detachments or breaks</i>	<i>Subgroup</i>	Exudative retinal detachment	Equal

Eyelid laceration	C0339094	231816006	Laceration of eyelid	Equal	S01.119 / S01.129	Laceration without/with foreign body of unspecified eyelid and periocular area	Equal	NA01.2 / NA01.3	Laceration without/with foreign body of head	<i>Subgroup</i>	Eyelid laceration	Equal
Fracture of orbital floor	C0149944	207787008	Fracture of orbital floor	Equal	S02.3	Fracture of orbital floor	Equal	NA02.21	Fracture of orbital floor	Equal	No	Equal
Fracture of orbital roof	C0272458	38567007	Fracture of orbital roof	Equal	S02.12	Fracture of orbital roof	Equal	NA02.20	Fracture of orbital roof	Equal	No	Equal
Fracture of supraorbital rim	C034778	263170006	Fracture of supraorbital rim	Equal	S02.85	<i>Fracture of orbit</i>	<i>Wide</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Hemolytic glaucoma	C1274101	392030001	Hemolytic glaucoma	Equal	H40	<i>Glaucoma</i>	<i>Wide</i>	9C61	<i>Glaucoma</i>	<i>Wide</i>	No	<i>Wide</i>
Hyphema	C0020581	75229002	Hyphema	Equal	H21.0	Hyphema	Equal	9A80	Hyphema	Equal	No	Equal
Injury of globe of eye	C0339055	231794000	Injury of globe of eye	Equal	S05	<i>Injury of eye and orbit</i>	<i>Narrow</i>	NA06.Z	Injury of eye or orbit, unspecified	Equal	No	Equal
Intralenticular foreign body	C0154801	231969006	Foreign body in lens	Equal	H44.73 / H44.63	Retained (nonmagnetic/magnetic) (old) foreign body in lens	Equal	NA06.80 / NA06.81	<i>Retained intraocular magnetic/nonmagnetic foreign body, unilateral</i>	<i>Wide</i>	No	<i>Wide</i>
Intra-ocular foreign body	C3898107	157361002	Intraocular foreign body	Equal	H44.70	<i>Unspecified retained (old) intraocular foreign body, nonmagnetic</i>	<i>Narrow</i>	NA06.8Y	<i>Other specified traumatic injury to eyeball</i>	<i>Subgroup</i>	Intra-ocular foreign body	Equal
Iridodialysis	C0152246	45953007	Iridodialysis	Equal	H21.53	Iridodialysis	Equal	9A93	<i>Adhesions or disruptions of iris or ciliary body</i>	<i>Subgroup</i>	Iridodialysis	Equal
Iris foreign body	C0339339	231960005	Foreign body in iris	Equal	H44.72 / H44.62	Retained (nonmagnetic/magnetic) (old) foreign body in iris or ciliary body	Equal	NA06.80 / NA06.81	<i>Retained intraocular magnetic/nonmagnetic foreign body, unilateral</i>	<i>Subgroup</i>	Retained magnetic/nonmagnetic foreign body in iris, unilateral	Equal
Laceration of eye	C0160470	46952005	Laceration of eye	Equal	S05.3	<i>Ocular laceration without prolapse or loss of intraocular tissue</i>	<i>Narrow</i>	NA06.8D	<i>Ocular laceration without prolapse or loss of intraocular tissue, unilateral</i>	<i>Subgroup</i>	Laceration of eye NOS	Equal
Lacrimal duct rupture	C1394612	262751001	<i>Injury of lacrimal passage</i>	<i>Wide</i>	H04	<i>Disorders of lacrimal system</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Subgroup</i>	Traumatic rupture of lacrimal duct	Equal
Lateral canthal tendon injury	N/A	282752000	<i>Injury of eye region</i>	<i>Wide</i>	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>

Lateral orbital wall closed fracture	C5140953	640080131000119107 / 243863351000119103	Left/Right lateral orbit wall closed fracture	Equal	S02.849.A	<i>Fracture of lateral orbital wall, unspecified side, initial encounter for closed fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Lateral orbital wall fracture	C0347777	263169005	Fracture of lateral wall of orbit	Equal	S02.84	Fracture of lateral orbital wall	Equal	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Subgroup</i>	Lateral orbital wall fracture	Equal
Lateral orbital wall open fracture	C5140954	263169005	<i>Fracture of lateral wall of orbit</i>	<i>Wide</i>	S02.849.B	<i>Fracture of lateral orbital wall, unspecified side, initial encounter for open fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Lattice degeneration	C0154856	3577000	Retinal lattice degeneration	Equal	H35.41	Lattice degeneration of retina	Equal	9B78.4	<i>Peripheral retinal degeneration</i>	<i>Subgroup</i>	Lattice degeneration	Equal
Le Fort fracture	C0272464	48407005	Le Fort's fracture	Equal	S02.41	LeFort fracture	Equal	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Le Fort fracture type I	C0407747	63669006	Le Fort's fracture, type I	Equal	S02.411	Le Fort I	Equal	NA02.40	Le Fort fracture type I	Equal	No	Equal
Le Fort fracture type II	C0407748	44916009	Le Fort's fracture, type II	Equal	S02.412	Le Fort II	Equal	NA02.41	Le Fort fracture type II	Equal	No	Equal
Le Fort fracture type III	C0407749	37027003	Le Fort's fracture, type III	Equal	S02.413	Le Fort III	Equal	NA02.42	Le Fort fracture type III	Equal	No	Equal
Lens dislocation	C0023309	231980006	<i>Traumatic dislocation of lens</i>	<i>Narrow</i>	H27.1	Lens dislocation	Equal	9B11.1	Dislocation of lens	Equal	No	Equal
Lens foreign body	C0154801	231969006	Foreign body in lens	Equal	H44.73 / H44.63	Retained (nonmagnetic/magnetic) (old) foreign body in lens	Equal	NA06.80 / NA06.81	<i>Retained intraocular magnetic/nonmagnetic foreign body, unilateral</i>	<i>Subgroup</i>	Retained magnetic/nonmagnetic foreign body in lens, unilateral	Equal
Lens subluxation	C0023316	65814009	Subluxation of lens	Equal	H27.11	Subluxation of lens	Equal	9B11.1	<i>Dislocation of lens</i>	<i>Subgroup</i>	Subluxation of lens	Equal
Limbal perforation	N/A	231880007	Perforating corneoscleral wound	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Macular hole	C002441	232006002	Macular hole	Equal	H35.34	Macular cyst, hole, or pseudohole	Equal	NA06.60	<i>Traumatic macular hole</i>	<i>Narrow</i>	No	<i>Narrow</i>
Medial canthus tendon injury	N/A	282752000	<i>Injury of eye region</i>	<i>Wide</i>	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>

Medial orbital fracture	C0347776	263168002	Fracture of medial wall of orbit	Equal	S02.83	Fracture of medial orbital wall	Equal	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Subgroup</i>	Orbital medial wall fracture	Equal
Medial orbital wall closed fracture	C5140932	7.3521E+13	Closed fracture of medial wall of orbit	Equal	S02.839A	<i>Fracture of medial orbital wall, unspecified side, initial encounter for closed fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Medial orbital wall open fracture	C3875167	1.13046E+16	Open fracture of medial wall of orbit	Equal	S02.839B	<i>Fracture of medial orbital wall, unspecified side, initial encounter for open fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Non perforating wound of cornea	C0339291	231941003	Nonperforating wound of cornea	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.4	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Wide</i>	No	<i>Wide</i>
Ocular adnexa open wound	C0160459	16998003	Open wound of ocular adnexa	Equal	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.04	<i>Open wound of eyelid or periorcular area</i>	<i>Subgroup</i>	Open wound of ocular adnexa	Equal
Open fracture of orbital floor	C0339151	3421000	Open fracture of orbital floor (blow-out)	Equal	S02.3	<i>Fracture of orbital floor</i>	<i>Wide</i>	NA02.21	<i>Fracture of orbital floor</i>	<i>Wide</i>	No	<i>Wide</i>
Open fracture of orbital portion of zygomatic bone	C1264252	110020006	Open fracture of orbital portion of zygomatic bone	Equal	S02.402B	<i>Zygomatic fracture, unspecified side, initial encounter for open fracture</i>	<i>Narrow</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Open fracture of orbital rim	C2118116	263170006	<i>Fracture of supraorbital rim</i>	<i>Narrow</i>	S02.85	<i>Fracture of orbit</i>	<i>Wide</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
Open globe injury	C3898098	231794000	<i>Injury of globe of eye</i>	<i>Wide</i>	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.8Y	<i>Other specified traumatic injury to eyeball</i>	<i>Wide</i>	No	<i>Wide</i>
Open injury of the eyeball	C0160474	231794000	<i>Injury of globe of eye</i>	<i>Wide</i>	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.8Y	<i>Other specified traumatic injury to eyeball</i>	<i>Subgroup</i>	Open injury of the eyeball, unilateral	Equal
Open wound of eyelid	C0433978	262749000	Open wound of eyelid	Equal	S01.1	Open wound of eyelid	Equal	NA06.04	Open wound of eyelid or periorcular area	Equal	No	Equal
Orbital apex fracture	N/A	95851007	<i>Fracture of orbit</i>	<i>Wide</i>	S02.85	<i>Fracture of orbit, unspecified</i>	<i>Wide</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>

Orbital compartment syndrome	C0009492		Unmatched			Unmatched			Unmatched		No	
Orbital foreign body	C0339154	231852005	Orbital foreign body	Equal	T15	<i>Foreign body on external eye</i>	<i>Wide</i>	NA06.2	<i>Retained foreign body following penetrating wound of orbit</i>	<i>Wide</i>	No	<i>Wide</i>
Orbital fracture	C0029184	95851007	Fracture of orbit	Equal	S02.85	Fracture of orbit, unspecified	Equal	NA02.2	Orbital fracture	Equal	No	Equal
Penetrating lens injury	C1402252	416786002	Penetrating injury of lens	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.84	<i>Penetrating wound of eyeball, without foreign body, unilateral</i>	<i>Subgroup</i>	Penetrating injury of lens without foreign body, unilateral	Equal
Perforating corneoscleral wound	C0339199	231880007	Perforating corneoscleral wound	Equal	S05	<i>Injury of eye and orbit</i>	<i>Wide</i>	NA06.4	<i>Injury of conjunctiva and corneal abrasion without foreign body</i>	<i>Wide</i>	No	<i>Wide</i>
Perforating lens injury	C1562405	416068009	Perforating injury of lens	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.84	<i>Penetrating wound of eyeball, without foreign body, unilateral</i>	<i>Wide</i>	No	<i>Wide</i>
Phthisis bulbi	C0271007	111510002	Phthisis bulbi	Equal	H44.9	<i>Disorder of globe</i>	<i>Wide</i>	9C22.1	Phthisis bulbi	Equal	No	Equal
Posterior dislocation of the lens	C0155373	14169000	Posterior dislocation of lens	Equal	H27.13	Posterior dislocation of lens	Equal	9B11.1	<i>Dislocation of lens</i>	<i>Subgroup</i>	Posterior dislocation of the lens	Equal
Posterior eye wall foreign body	C0154803	231883009	Foreign body in posterior wall eye	Equal	H44.74 / H44.64	Retained (nonmagnetic/magnetic) (old) foreign body in posterior wall of globe	Equal	NA06.2	<i>Retained foreign body following penetrating wound of orbit</i>	<i>Wide</i>	No	<i>Wide</i>
Posterior vitreous detachment	C0423361	247081001	Posterior vitreous detachment	Equal	H43.81	<i>Vitreous degeneration</i>	<i>Wide</i>	9B81	Posterior vitreous detachment	Equal	No	Equal
Posttraumatic chorioretinal scar	C0271031	16150008	Posttraumatic chorioretinal scar	Equal	H31.0	<i>Chorioretinal scars</i>	<i>Wide</i>	9B62	<i>Chorioretinal scars</i>	<i>Wide</i>	No	<i>Wide</i>
Post-traumatic endophthalmitis	C1282230	314547001	Post-traumatic endophthalmitis	Equal	H44.1	<i>Other endophthalmitis</i>	<i>Wide</i>	9B72.Y	<i>Other specified inflammatory diseases of the retina</i>	<i>Subgroup</i>	Post-traumatic bacterial endophthalmitis	Equal
Post-traumatic uveitis	C1281936	314030005	Post-traumatic uveitis	Equal	H44.13	Sympathetic uveitis	Equal	9C21.0	Sympathetic uveitis	Equal	No	Equal

Preretinal hemorrhage	C4316879	11547003	Preretinal hemorrhage	Equal	H35.6	Retinal hemorrhage	<i>Wide</i>	9B78.5	Retinal hemorrhage	<i>Subgroup</i>	Preretinal hemorrhage	Equal
Proliferative vitreoretinopathy	C0242852	232016005	Proliferative vitreoretinopathy	Equal	H35.2	<i>Other non-diabetic proliferative retinopathy, unspecified eye</i>	<i>Wide</i>	9B78.2	<i>Other proliferative retinopathy</i>	<i>Subgroup</i>	Proliferative vitreoretinopathy	Equal
Purtscher retinopathy	C0339488	232030000	Purtscher's retinopathy	Equal	H34.9	<i>Unspecified retinal vascular occlusion</i>	<i>Wide</i>	9B71	<i>Retinopathy</i>	<i>Wide</i>	No	<i>Wide</i>
Retinal detachment	C0035305	42059000	Retinal detachment	Equal	H33.0	<i>Retinal detachment with break</i>	<i>Narrow</i>	9B73	Retinal detachments or breaks	Equal	No	Equal
Retinal dialysis	C0035321	232003005	Retinal dialysis	Equal	H33.04	<i>Retinal detachment with retinal dialysis</i>	<i>Narrow</i>	9B73.0	<i>Retinal detachment with break</i>	<i>Subgroup</i>	Retinal dialysis	Equal
Retinal dot hemorrhage	C0474358	247133006	Retinal dot hemorrhage	Equal	H35.6	<i>Retinal hemorrhage</i>	<i>Wide</i>	9B78.5	<i>Retinal hemorrhage</i>	<i>Wide</i>	No	<i>Wide</i>
Retinal flame hemorrhage	C0474357	247132001	Retinal flame hemorrhage	Equal	H35.6	<i>Retinal hemorrhage</i>	<i>Wide</i>	9B78.5	<i>Retinal hemorrhage</i>	<i>Wide</i>	No	<i>Wide</i>
Retinal hemorrhage	C0035317	28998008	Retinal hemorrhage	Equal	H35.6	Retinal hemorrhage	Equal	9B78.5	Retinal hemorrhage	Equal	No	Equal
Retinal perforation	C0035321	40024006	<i>Retinal defect</i>	<i>Wide</i>	H33.0	<i>Retinal detachment with break</i>	<i>Wide</i>	9B73	<i>Retinal detachment with break</i>	<i>Wide</i>	No	<i>Wide</i>
Retinal tear	C4552653	95690009	Retinal tear	Equal	H33.03	<i>Retinal detachment with giant retinal tear</i>	<i>Narrow</i>	9B73.0 / 9B73.4	<i>Retinal detachment with retinal break / Retinal breaks without detachment</i>	<i>Subgroup</i>	Retinal detachment with giant retinal tear	Equal
Retinitis sclopetaria	C1828151	424757003	Retinitis sclopetaria	Equal	H30.103	<i>Unspecified disseminated chorioretinal inflammation, bilateral</i>	<i>Wide</i>	9B65.2	<i>Chorioretinal inflammation</i>	<i>Wide</i>	No	<i>Wide</i>
Retinoschisis	C0152439	44268007	Retinoschisis	Equal	H33.10	Unspecified retinoschisis	Equal	9B73.1	Retinoschisis	Equal	No	Equal
Retrolbulbar foreign body	C0271329	27288007	Retrolbulbar foreign body	Equal	T15	<i>Foreign body on external eye</i>	<i>Wide</i>	ND70	<i>Foreign body on external eye</i>	<i>Wide</i>	No	<i>Wide</i>
Rhegmatogenous retina detachment	C0271055	19620000	Rhegmatogenous retinal detachment	Equal	H33.0	Retinal detachment with retinal break	Equal	9B73.0	Retinal detachment with retinal break	Equal	No	Equal
Rupture of descemet membrane	C0155117	193822005	Descemet's membrane rupture	Equal	H18.33	Rupture in Descemet's membrane	Equal	9A78.3	<i>Changes in corneal membranes</i>	<i>Subgroup</i>	Rupture of descemet membrane	Equal
Rupture of the globe	C0339052	231791008	Rupture of globe	Equal	S05.2	<i>Ocular laceration and rupture with</i>	<i>Narrow</i>	NA06.80D	Ocular laceration without prolapse or loss of	<i>Narrow</i>	No	<i>Narrow</i>

						<i>prolapse or loss of intraocular tissue</i>			intraocular tissue, unilateral			
Scleral Laceration	C0521769	95799000	Scleral laceration	Equal	S05.3	<i>Ocular laceration without prolapse or loss of intraocular tissue</i>	<i>Narrow</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Scleral rupture	C0339200	231881006	Scleral rupture	Equal	S05.2	<i>Ocular laceration and rupture without prolapse or loss of intraocular tissue</i>	<i>Narrow</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Siderosis bulbi	C0271001	25277000	Siderosis of eye	Equal	H44.32	Siderosis of eye	Equal	9B7Y	<i>Other specified disorders of retina</i>	<i>Wide</i>	No	<i>Wide</i>
Subconjunctival hemorrhage	C0038534	787680009	Subconjunctival hemorrhage	Equal	H11.3	<i>Conjunctival hemorrhage</i>	<i>Wide</i>	9A61.5	Conjunctival or subconjunctival hemorrhage	Equal	No	Equal
Superficial retinal hemorrhage	C0271047	63297008	Superficial retinal hemorrhage	Equal	H35.6	<i>Retinal hemorrhage</i>	<i>Wide</i>	9B78.5	<i>Retinal hemorrhage</i>	<i>Wide</i>	No	<i>Wide</i>
Sympathetic ophthalmia	C0029077	75315001	Sympathetic uveitis	Equal	H44.13	Sympathetic uveitis	Equal	9C21.0	Sympathetic uveitis	Equal	No	Equal
Tear of iris root	C0339334	231953004	Tear of iris root	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Tear of iris stroma	C0339333	231952009	Tear of iris stroma	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Terson syndrome	C0730313	312946000	Terson's syndrome	Equal	S05.9	<i>Unspecified injury of eye or orbit</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Tractional retinal detachment	C0154827	42059000	<i>Retinal detachment</i>	<i>Wide</i>	H33.4	Traction detachment of retina	Equal	9B73.Y	<i>Other specified retinal detachments or breaks</i>	<i>Subgroup</i>	Tractional retinal detachment	Equal
Traumatic blindness	C0273484	23653003	Traumatic blindness	Equal	H54	<i>Blindness and low vision</i>	<i>Wide</i>	9D90	<i>Vision impairment includes blindness</i>	<i>Subgroup</i>	Traumatic blindness	Equal
Traumatic cataract	C0154983	34361001	Traumatic cataract	Equal	H26.1	Traumatic cataract	Equal	9B10.20	Traumatic cataract	Equal	No	Equal
Traumatic cyclodialysis	C0339338	231957003	Traumatic cyclodialysis	Equal	H21.89	<i>Other specific disorder of iris and ciliary body</i>	<i>Wide</i>	9A94.Y	<i>Other disorders of iris and ciliary body</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic glaucoma	C0339594	68241007	Glaucoma associated with ocular trauma	Equal	H40.3	Glaucoma secondary to eye trauma	Equal	9C61.29	Glaucoma due to eye trauma	Equal	No	Equal
Traumatic hyphema	C0339335	231954005	Traumatic hyphema	Equal	H21.0	<i>Hyphema</i>	<i>Wide</i>	9A80	<i>Hyphema</i>	<i>Subgroup</i>	Traumatic hyphema	Equal
Traumatic iris atrophy	C0339332	231951002	Traumatic iris atrophy	Equal	H21.29	<i>Other iris atrophy</i>	<i>Wide</i>	9A90.2	<i>Iris atrophy</i>	<i>Wide</i>	No	<i>Wide</i>

Traumatic iritis	C0745402	417020006	Traumatic iritis	Equal	H20.049	<i>Secondary noninfectious iridocyclitis, unspecified eye</i>	<i>Wide</i>	9A94.Y	<i>Other disorders of iris and ciliary body</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic keratitis	C4518708	733313008	Keratitis due to trauma	Equal	H16.8	<i>Other keratitis</i>	<i>Wide</i>	9A72	Traumatic keratitis	Equal	No	Equal
Traumatic macular hole	C4544116	735922000	Traumatic macular hole	Equal	H35.34	<i>Macular cyst, hole, or pseudohole</i>	<i>Wide</i>	NA06.60	Traumatic macular hole	Equal	No	Equal
Traumatic miosis	N/A	302939004	<i>Constricted pupil</i>	<i>Wide</i>	H57.03	<i>Miosis</i>	<i>Wide</i>	LA11.62	<i>Anomalies of pupillary function</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic mydriasis	C1321307	404649002	Traumatic mydriasis	Equal	H57.04	<i>Mydriasis</i>	<i>Wide</i>	LA11.62	<i>Anomalies of pupillary function</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic optic neuropathy	C0161398	230515007	Traumatic optic neuropathy	Equal	S04.01	<i>Injury of optic nerve</i>	<i>Wide</i>	9C40.7	Traumatic optic neuropathy	Equal	No	Equal
Traumatic retinal hemorrhage	C4543917	735661006	Traumatic retinal hemorrhage	Equal	H35.6	<i>Retinal hemorrhage</i>	<i>Wide</i>	NA06.7	Traumatic retinal hemorrhage	Equal	No	Equal
Traumatic retinoschisis	C0152439	44268007	<i>Retinoschisis</i>	<i>Wide</i>	H33.19	<i>Other retinoschisis and retinal cysts</i>	<i>Wide</i>	9B73.1	<i>Retinoschisis</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic subconjunctival hemorrhage	C2146027	78768009	<i>Subconjunctival hemorrhage</i>	<i>Wide</i>	H11.3	<i>Conjunctival hemorrhage</i>	<i>Wide</i>	9A61.5	<i>Conjunctival or subconjunctival hemorrhage</i>	<i>Wide</i>	No	<i>Wide</i>
Traumatic subluxation of lens	C0339380	231978000	Traumatic subluxation of lens	Equal	H27.11	<i>Subluxation of lens</i>	<i>Wide</i>	9B11.1	<i>Dislocation of lens</i>	<i>Wide</i>	No	<i>Wide</i>
Valsalva retinopathy	C0339489	232031001	Valsalva retinopathy	Equal	H35.60	<i>Retinal hemorrhage, unspecified eye</i>	<i>Wide</i>	9B71	<i>Retinopathy</i>	<i>Wide</i>	No	<i>Wide</i>
Vitreoretinal tuft	C1827164	424358006	Vitreoretinal tuft	Equal	H43.81	<i>Vitreous degeneration</i>	<i>Wide</i>	9B81	<i>Posterior vitreous detachment</i>	<i>Wide</i>	No	<i>Wide</i>
Vitreous foreign body	C1394043	247093005	Foreign vitreous contents	Equal	H44.759 / H44.659	Retained (nonmagnetic/magnetic) (old) foreign body in vitreous body, unspecified eye	Equal	NA06.80 / NA06.81	<i>Retained intraocular magnetic/nonmagnetic foreign body, unilateral</i>	<i>Subgroup</i>	Retained magnetic/nonmagnetic foreign body in vitreous, unilateral	Equal
Vitreous hemorrhage	C0042909	31341008	Vitreous hemorrhage	Equal	H43.1	Vitreous hemorrhage	Equal	9B83	Vitreous hemorrhage	Equal	No	Equal
Vitreous traction	C2013169	312901001	<i>Vitreomacular traction syndrome</i>	<i>Narrow</i>	H43.82	<i>Vitreomacular adhesion</i>	<i>Wide</i>	NA06.Z	<i>Injury of eye or orbit, unspecified</i>	<i>Wide</i>	No	<i>Wide</i>
Vossius ring	C0271169	72180004	Vossius ring	Equal	H27	<i>Other disorders of lens</i>	<i>Wide</i>	9B10.2Y	<i>Other specified cataracts</i>	<i>Wide</i>	No	<i>Wide</i>

White-eyed blowout fracture	C034777 5	263167007	<i>Blow out fracture of orbit</i>	<i>Wide</i>	S02.3	<i>Fracture of orbital floor</i>	<i>Wide</i>	NA02.2Y	<i>Other specified orbital fracture</i>	<i>Wide</i>	No	<i>Wide</i>
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UMLS = Unified Medical Language System; SNOMED-CT = Systemized Nomenclature of Medicine Clinical Terms; ICD-10-CM=International Classification of Diseases, version 10 Clinical Modification; ICD-11=International Classification of Diseases, version 11

Table S2 includes all the ophthalmic trauma concepts found in the BCSC book and the codes in the different data sets.