

Supplemental table 1: diagnoses and procedural codes used for outcomes

Outcome	ICD or procedural codes
All forms of diabetic retinopathy	E10.3, E11.3
Nonproliferative diabetic retinopathy	E10.32, E10.33, E10.43, E11.32, E11.33, E11.34
Mild NPDR	E10.32, E11.32
Moderate NPDR	E10.33, E11.33
Severe NPDR	E10.34, E11.34
Proliferative diabetic retinopathy	E10.35, E11.35
Vitreous Hemorrhage	H43.1
Intravitreal injection	67028, 1232150, 595060, 253337
Pars Plana Vitrectomy	67036, 1014238
Pan Retinal Photocoagulation	67228
Tractional Retinal Detachment	H33.4
Diabetic macular edema	E11.311, E10.311
Retinal vascular occlusion	H34
Retinal vein occlusion	H34.81, H34.83
Retinal artery occlusion	H34.1, H34.23
Ocular hypertension	H40.05
Glaucoma suspect	H40.0
Glaucoma	H40
Primary Open Angle Glaucoma	H40.11
Glaucomatous optic atrophy	H47.23

Mild glaucoma	H40.1231, H40.1131, H40.1111, H40.1121, H40.1191, H40.1211, H40.1221, H40.1291, H40.10X1
Moderate glaucoma	H40.10X2, H40.1232, H40.1332, H40.1132, H40.1122, H40.1112, H40.1192, H40.1222, H40.1212, H40.1292
Severe glaucoma	H40.10X3, H40.1233, H40.1133, H40.1123, H40.1113, H40.1193, H40.1223, H40.1213, H40.1293
Glaucomatous surgeries and procedures	Z98.83, 66761, 66170, 66172
Use of pressure lowering eye drops	43611, 283809, 1244607, 283810, 1992864, 8328, 1988390, 14845, 134615, 1520, 10600, 60207, 194881
Obstructive sleep apnea	G47.33
All forms of AMD	H35.32, 35.31
Non exudative AMD	H35.31
Exudative AMD	H35.32
Age related cataract	H25
Nuclear sclerotic cataract	H25.1
Posterior subcapsular cataract	H25.04
Cortical cataract	H25.01
Diabetic cataract	E10.36, E11.36

Cataract surgery	110473004, 66830, 66840, 66850, 66852, 66920, 66940, 66983, 66984, 66987, 66988, 66984, 415089008, 1035657, 1035656, 66982, 66850, 361191005, 08DK3ZZ, 08DJ3ZZ
Blindness and Low Vision	H54
Low vision	H54.2, H54.3, H54.5, H54.6, H54.7
Blindness	H54.4, H54.0, H54.1, H54.8

Abbreviations: ICD = international classification of diseases, AMD= age related macular degeneration, NPDR = nonproliferative diabetic retinopathy,