

Supplementary Table 1. Diagnostic codes for outcomes and comorbidities

Diseases based on ICD categories	ICD-9-CM codes	ICD-10-CM codes
Primary outcomes		
Diabetic retinopathy	362.0x	E11.31, E11.32, E11.33, E11.34, E11.35
Non-proliferative diabetic retinopathy	362.01,362.03,362.04,362.05,362.06	E11.31, E11.32, E11.33, E11.34
Proliferative diabetic retinopathy	362.02	E11.35
Secondary outcomes		
Diabetic nephropathy	250.4x	E112
Diabetic neuropathy	250.6x	E114
Myocardial infarction	410.xx, 412.xx	I21-I22
Ischemic stroke	433.xx-437.xx	I66, I65.1, I65.0, I65.8, I65.9, I63.6, I63.8, I63.9, G45.0, G45.8, G45.1, G45.2, G46.0, G46.1, G46.2, G45.9, G45.4, G46.3, G46.4, G46.5, G46.6, G46.7, G46.8, I67.0, I67.1, I67.2, I67.4, I67.5, I67.6, I67.7, I67.9, I68.0, I68.2, I68.8
Peripheral arterial disease	440.xx, 441.xx, 443.xx, 444.0x, 444.8x, 447.8x, 447.9x, 093.0, 437.3, 444.22, 447.1, 557.1, 557.9, V434	I70, I71, I73, I75, I77.1, I790, I791, I792, I773, I779, I798, K551, K558, K559, Z958, Z959, I743, I744, I745, I748, I740, I7789
Claudication	440.21	I70.211, I70.212, I70.213, I70.218, I70.219
Critical limb ischemia	440.22, 440.23, 440.24	I70.22, I70.23, I70.24, I70.25, I70.26, I70.92
Comorbidity		
Diabetes mellitus	250.01, 250.03,250.11, 250.13,250.21, 250.23,250.31, 250.33,250.41, 250.43,250.51, 250.53,250.61, 250.63,250.71, 250.73,250.81, 250.83,250.91, 250.93	E10
Hypertension	401.xx-405.xx	I10-I15, N262
Dyslipidemia	272.xx	E77, E780, E781, E782, E783, E784, E785, E786, E881, E753, E755, E882, E756, E789, E7521, E7522, E7524, E7130, E7879, E7881, E7889, E8889, E7870
Heart failure	428.xx	I50
Chronic kidney disease	580.xx-589.xx, 403.xx-404.xx, 016.0x, 095.4x, 236.9x, 250.4x, 274.1x, 442.1x, 447.3x, 440.1x, 572.4x, 642.1x, 646.2x, 753.1x, 283.11, 403.01, 404.02, 446.21	A1811, D593, E102, E112, E132, I12, I13, K767, M103, M310, N00, N01, N02, N03, N04, N05, N06, N07, N08, N14, N150, N158, N159, N16, N171, N172, N18, N19, N200, N25, N261, N269, N27, Q61
Retinal vascular occlusion	362.3x	H34.0, H34.1, H34.2, H34.8
Separation of retinal layers	361.xx,362.4x	H33, H35.7
Degeneration of retina	362.5x,362.6x,362.7x	H35.3, H35.4, H35.5, H35.05
Chorioretinal inflammations	363.0x,363.1x,363.2x	H35.06, H30
Other retinal disorders (including retinal hemorrhage, vitreous hemorrhage, retinal edema, etc.)	362.8x, 379.23	H35.6, H35.8, H43.1

ICD, International Classification of Diseases; ICD-9-CM, International Classification of Diseases, Ninth Revision, Clinical Modification; ICD-10-CM, International Classification of Diseases, Tenth Revision, Clinical Modification.