Table S1. ICD-9-CM codes of covariates and outcomes

Comorbidity	
Hypertension	401-405
Diabetes mellitus	250
Ischemic heart disease	410-414
Atherosclerosis	440
Heart failure	428
Cerebrovascular disease	430-438
Chronic kidney disease	585
Chronic obstructive pulmonary disease	490, 491, 496
Malignancy	140-208, 230-234
Anxiety disorder	300
Depressive disorder	296.2, 296.3
Schizophrenia	295
Bipolar disorder	296, except 296.2x, 296.3x, 296.9x, 296.82
Headache related to dural puncture	349.0
Lifestyle factor	
Obesity	278
Smoking disorder	V15.82, 305.1
Alcohol use disorder	291.0, 291.1, 291.2, 291.3, 291.4, 291.5, 291.8, 291.81, 291.82, 291.89, 291.9, 303.00-303.03, 303.90-303.93, 305.00-305.03, 357.5, 425.5, 535.30, 535.31, 571.0, 571.1, 571.2, 571.3, E860.0
Malnutrition	262, 263.0, 263.1, 263.8, 263.9, 783.22, 783.21, 799.4, V85.0, 260, 261
Postoperative complication	
Pneumonia	480-486
Septicemia	038
Acute renal failure	584
Pulmonary embolism	415.1
Deep vein thrombosis	451.11, 451.19, 451.2, 451.81, 451.9, 453.40-453.42, 453.8, 453.9
Stroke	430-437
Urinary tract infection	599.0
Surgical site infection	682, 682.6, 682.9, 686.8, 686.9, 998.5, 998.51, 998.59
Acute myocardial infarction	410
Cardiac dysrhythmias	427
Postoperative bleeding	998.1
Outcome	
Migraine	346
Migraine with aura	346.0, 346.5, 346.6
Migraine without aura	346.1, 346.7
Migraine, unspecified	346.2, 346.3, 346.4, 346.8