

Supplemental Table 1. ICD-9 codes used to define comorbid conditions

Comorbid condition	ICD9 Diagnosis Code(s)
Esophageal reflux, gastrointestinal ulcer	530.1x, 530.2x, 530.81, 530.85, 531.xx-535.xx
Rheumatoid arthritis	714.xx, 716.50-716.99, 719.3x, 720.xx
Asthma	491.xx-493.xx
Cough	786.2x
Congestive heart failure	398.91, 402.01, 402.11, 402.91, 404.01, 404.03, 404.11, 404.13, 404.91, 404.93, 425.x, 428.x, 674.5x
Obesity	278.00, 278.01
Smoking	305.1, V15.82, 989.84
Alcohol abuse	291.xx, 303.xx, 305.00-305.02, 571.1, 790.3,
Dementia	290.xx, 294.1x, 331.0, 331.1x, 331.2, 331.7, 331.82, 331.89, 331.9
Gait disturbance or history of falls	781.2, V158.8
Coronary artery disease	410.xx-414.0x, 414.2-414.9, 429.7x, 996.03 and procedure code 36.x
Cerebral vascular disease	430.xx-436.xx, 437.0, 437.1, 437.8, 437.9, 438.xx
Peripheral vascular disease	440.2x-440.9, 443.89, 443.9, 444.xx, 445.xx
Intestinal malabsorption	579.x
Chronic renal insufficiency	250.4x, 285.21, 403.xx-404.xx, 581.xx, 584.xx-586, 588.x, 593.9, V56.x, V45.1x
Endocrine disorder affecting bone metabolism	252.xx, 253.2, 255.0, 255.4x, 255.5, 268.xx, 275.3, 275.4x, 275.5, 731.0
Immune deficiency	279.0x-279.3, 279.8, 279.9
Inflammatory bowel disease	555.xx-556.xx
Osteoporosis	733.00-733.19
Seizures or a history of syncope	345.00-345.5x, 345.7x-345.9x, 780.2, 780.39
Chronic liver disease	571.2, 571.4x-571.9, 572.2-572.8, 573.x
Chronic pancreatitis	577.1, 579.4
Diabetes	249.xx, 250.xx