

Supplementary Table 1. The ICD-9 codes used for the 21 conditions of interest

Group of diseases	Disease with ICD-9 codes
Cardio- and cerebrovascular	Myocardial infarction (410.xx), angina pectoris (413.xx), stroke (431.xx, 433.x1, 434.x1, 436.xx), heart failure (428.xx)
Malignancies	Lung cancer (162.xx), colon cancer (153.xx), breast cancer (females) (174.xx), prostate cancer (185.xx), skin melanoma (172.xx), kidney cancer (189.xx), pancreas cancer (157,xx)
Neurodegenerative	Parkinson's disease (332.xx), Alzheimer's disease (331.0)
Pulmonary	Chronic obstructive pulmonary disease (COPD) [§] (490.xx, 491.xx, 492.xx, 493.xx, 494.xx, 495.xx, 496.xx), asthma (493.xx)
Bones/skeletal	Hip fracture (820.xx, 821.xx)
Endocrine and metabolic	Diabetes mellitus (250.xx), goiter (240.xx, 241.xx, 242.0x, 242.1x, 242.2x, 242.3x)
Miscellaneous	Chronic renal diseases with renal failure (403.xx, 404.xx, 581.xx, 582.xx, 583.xx, 585.xx, 586.xx, 587.xx, 588.xx, 250.4x, 249.4x), ulcer (531.xx, 532.xx, 533.xx, 534.xx), arthritis (714.0x, 714.1x, 714.2x, V82.1x)

§ -- the definition of COPD excluding asthma codes is used for analysis of asthma risk for patients with COPD (Figure 1)