

Appendix. ICD-9-CM codes for chronic diseases

Chronic diseases	ICD-9-CM codes
Cardiovascular diseases	
Hypertension	401.1, 401.9, 402.10, 402.90, 404.10, 404.90, 405.11, 405.19, 405.91, 405.99
Ischemic heart disease	410~412
Hyperlipidemia	272.0~272.4
Congestive heart failure	398.91, 402.11, 402.91, 404.11, 404.13, 404.91, 404.93, 428.0~428.9 426.10, 426.11, 426.13, 426.2~426.53,
Cardiac arrhythmias	426.6~426.89, 427.0, 427.2, 427.31, 427.60, 427.9, 785.0
Blood loss anemia	280.0, 285.1
Peripheral vascular disorders	440.0~440.9, 441.2, 441.4, 441.7, 441.9, 443.0, 443.1-443.9, 444, 444.0~444.9, 447.1
Stroke	430~437
Neurological diseases	
Migraines	346, 346.0~346.9
Parkinson's disease	332
Rheumatologic diseases	
Rheumatoid arthritis	714.0~714.9
Systemic lupus erythematosus	710.0
Ankylosing spondylitis	720.0~720.9
Pulmonary diseases	
Pulmonary circulation disorders	415, 416.0~416.9, 417.9
Chronic pulmonary disease	493.2, 496
Asthma	493.0, 493.9
Endocrine diseases	
Diabetes, uncomplicated	250.00-250.33
Diabetes, complicated	250.40-250.73, 250.90~250.93
Hypothyroidism	244, 244.0~244.2, 244.8, 244.9, 245.2

Appendix. (continued)

Comorbidities	ICD-9-CM code
Renal diseases	
Renal failure	403.11, 403.91, 404.12, 404.92, 584, 585, 586
Fluid and electrolyte disorders	276.0~276.9
Gastrointestinal diseases	
Liver diseases	070.32, 070.33, 070.54, 456.0, 456.1, 456.20, 456.21, 571.0, 571.2, 571.3, 571.40~571.49, 571.5, 571.6, 571.8, 571.9, 572.3, 572.8
Peptic ulcers	531~534
Viral/infectious diseases	
Hepatitis B or C	070, 070.0~070.9
Hematological diseases	
Deficiency anemias	280.1~281.9
Mental illnesses	
Depression	296.2, 296.3, 300.4, 301.12, 309.0, 309.1, 311
Psychoses	295.00~298.9
Oncological diseases	
Metastatic cancer	196.0-199.1
Solid tumor without metastasis	140.0~172.9, 174.0~175.9, 179~195.8
Others	
Alcohol abuse	291.1, 291.2, 291.5, 291.8, 291.9, 303.90-303.93, 305.00-305.03, V113
Drug abuse	292.0, 292.82-292.89, 292.9, 304.00-304.93, 305.20-305.93

Adapted from the article by Chung SD, Chen YK, Kang JH, Keller JJ, Huang CC, Lin HC: Population-based estimates of medical comorbidities in erectile dysfunction in a Taiwanese population. *J Sex Med.* 2011;8: 3316-3324.