

**Supplementary Table 1. ICD-10 codes representing each category of Charlson comorbidity index**

Categories of Charlson comorbidity index	ICD-10 code
<b>Respiratory diseases</b>	
Chronic pulmonary disease	I27.8, I27.9, J40.x–J47.x, J60.x–J67.x, J68.4, J70.1, J70.3
<b>Cardiovascular diseases</b>	
Myocardial infarction	I21.x, I22.x, I25.2
Congestive heart failure	I09.9, I11.0, I13.0, I13.2, I25.5, I42.0, I42.5–I42.9, I43.x, I50.x, P29.0
Peripheral vascular disease	I70.x, I71.x, I73.1, I73.8, I73.9, I77.1, I79.0, I79.2, K55.1, K55.8, K55.9, Z95.8, Z95.9
<b>Malignant neoplasms</b>	
Any malignancy, including lymphoma and leukemia	C00.x–C26.x, C30.x–C34.x, C37.x–C41.x, C43.x, C45.x–C58.x, C60.x–C76.x, C81.x–C85.x, C88.x, C90.x–C97.x
Metastatic solid tumor	C77.x–C80.x
<b>Endocrine diseases</b>	
Diabetes without chronic complication	E10.0, E10.1, E10.6, E10.8, E10.9, E11.0, E11.1, E11.6, E11.8, E11.9, E12.0, E12.1, E12.6, E12.8, E12.9, E13.0, E13.1, E13.6, E13.8, E13.9, E14.0, E14.1, E14.6, E14.8, E14.9
Diabetes with chronic complication	E10.2–E10.5, E10.7, E11.2–E11.5, E11.7, E12.2–E12.5, E12.7, E13.2–E13.5, E13.7, E14.2–E14.5, E14.7
<b>Renal diseases</b>	
Renal disease	I12.0, I13.1, N03.2–N03.7, N05.2–N05.7, N18.x, N19.x, N25.0, Z49.0–Z49.2, Z94.0, Z99.2
<b>Gastrointestinal diseases</b>	
Peptic ulcer disease	K25.x–K28.x
Mild liver disease	B18.x, K70.0–K70.3, K70.9, K71.3–K71.5, K71.7, K73.x, K74.x, K76.0, K76.2–K76.4, K76.8, K76.9, Z94.4
Moderate or severe liver disease	I85.0, I85.9, I86.4, I98.2, K70.4, K71.1, K72.1, K72.9, K76.5, K76.6, K76.7
<b>Psychological diseases</b>	
Dementia	F00.x–F03.x, F05.1, G30.x, G31.1
<b>Neurological diseases</b>	
Cerebrovascular disease	G45.x, G46.x, H34.0, I60.x–I69.x
Hemiplegia or paraplegia	G04.1, G11.4, G80.1, G80.2, G81.x, G82.x, G83.0–G83.4, G83.9
<b>Musculoskeletal and connective tissue diseases</b>	
Connective tissue disease	M05.x, M06.x, M31.5, M32.x–M34.x, M35.1, M35.3, M36.0
<b>Infectious diseases</b>	
AIDS	B20.x–B22.x, B24.x

ICD-10, International Classification of Diseases, 10th Revision; AIDS, acquired immune deficiency syndrome.