Codes defined in the International Statistical Classification of Diseases and Related Health Problems 10th Revision (ICD-10) that we used to identify comorbidities in the Hospital Episode Statistics (HES) database.

**Myocardial infarction**: I21, “Acute myocardial infarction”; and I22, “Subsequent myocardial infarction”.

**Congestive heart failure**: I50.0, “Congestive heart failure”.

**Peripheral vascular disease**: I70, “Atherosclerosis”; I71, “Aortic aneurysm and dissection”; I72, “Other aneurysm and dissection”; and I73, “Other peripheral vascular diseases”.


**Dementia**: F00, “Dementia in Alzheimer disease”; F01, “Vascular dementia”; F02, “Dementia in other diseases classified elsewhere”; and F03, “Unspecified dementia”.


connective tissue”; and M36, “Systemic disorders of connective tissue in diseases classified elsewhere”.

**Peptic ulcer disease**: K25, “Gastric ulcer”; K26, “Duodenal ulcer”; K27, “Peptic ulcer, site unspecified”; and K28, “Gastrojejunal ulcer”.

**Mild liver disease**: K70.0, “Alcoholic fatty liver”; K76.0, “Fatty (change of) liver, not elsewhere classified”; and K76.1 “Chronic passive congestion of liver”.


**Hemiplegia**: G81, “Hemiplegia. Excluding congenital cerebral palsy”

**Moderate/severe renal disease**: N17, “Acute renal failure”; N18, “Chronic kidney disease”; and N19, “Unspecified kidney failure”.

Severe diabetes (i.e. with organ damage): E10, “Insulin-dependent diabetes mellitus”; E11, “Non-insulin-dependent diabetes mellitus”; E12, “Malnutrition-related diabetes mellitus”; E13, “Other specified diabetes mellitus”; or E14, “Unspecified diabetes mellitus”.


Tumour: C00-C75, “Malignant neoplasms, stated or presumed to be primary, of specified sites, except of lymphoid, haematopoietic and related tissue”; C76, “Malignant neoplasm of other and ill-defined sites”; C80, “Malignant neoplasm, without specification of site”; C88, “Malignant immunoproliferative diseases”; C90.0, “Multiple myeloma”; C90.2, “Extramedullary plasmacytoma”; C96, “Other and unspecified malignant neoplasms of lymphoid, haematopoietic and related tissue”; C97, “Malignant neoplasms of independent (primary) multiple sites”; D00-D09, “In situ neoplasms”; D10-D36, “Benign neoplasms”; and D37-D48, “Neoplasms of uncertain or unknown behaviour”.


diseases”; and K76, “Other diseases of liver”. Excluding codes for mild liver disease: K70.0, K76.0 and K76.1.

**AIDS**: B20, “HIV disease resulting in infectious and parasitic diseases”; B21, “HIV disease resulting in malignant neoplasms”; B22, “HIV disease resulting in other specified diseases”; and B23 “HIV disease resulting in other conditions”.
