

Supplementary table S1: Conditions included in the Charlson comorbidity index and the weights applied

Charlson Group	Description	Charlson Score	Notes
1	Acute Myocardial Infarction	1	
2	Congestive Heart Failure	1	
3	Peripheral Vascular Disease	1	
4	Cerebral Vascular Accident	1	
5	Dementia	1	
6	Pulmonary Disease	1	
7	Connective Tissue Disorder	1	
8	Peptic Ulcer	1	
9	Diabetes	1	Only highest score is counted
10	Diabetes Complications	2	
11	Paraplegia	2	
12	Renal Disease	2	
13	Cancer	2	Derived from cancer registry data rather than HES data. Only independent primary cancers included for 13.
14	Metastatic Cancer	N/A	
15	Liver Disease	1	Only highest score is counted
17	Severe Liver Disease	3	
16	HIV	6	

Method:

1. Define the lookback period (i.e. period for which HES episodes will be considered).
2. Examine all inpatient diagnostic HES fields for each patient episode in that period.
3. For each mention of a relevant condition in the table sum the score listed and derive a total. Multiple mentions within each category only count once.