

Supplementary Table 1. Definition of the comorbidities

Diagnosis	ICD-10 codes	Claim codes
Decompensated liver cirrhosis	K72.0, K72.1, K72.9, R18, I85.0, I98.3	Admission or outpatient department ≥ 1
Diabetes	E10–E14	Prescription of anti-diabetic drugs ≥ 1
Hypertension	I10–I11	Prescription of anti-hypertensive drugs ≥ 1
Dyslipidemia	E78	Prescription of lipid-lowering drugs ≥ 1
Cardiovascular disease	I21–I24 for myocardial infarction, I60–I69 for stroke	Admission or outpatient department ≥ 1
Cancer	C00–C97	Admission or outpatient department ≥ 1
COPD	J41–J44	Admission or outpatient department ≥ 1
Asthma	J45–J46	Admission or outpatient department ≥ 1
ESRD with dialysis	N18–N19, Z49, Z99.2	O701–O702 for hemodialysis ≥ 1 or O707 for peritoneal dialysis ≥ 1
Immunocompromised status	M05–M09, M30–M36 for autoimmune disease, B20–B24, F24, O987, Z21 for HIV/AIDS	Admission or outpatient department ≥ 1

ICD-10, International Classification of Diseases, 10th revision; COPD, chronic obstructive pulmonary disease; ESRD, end-stage renal disease; HIV, human immunodeficiency virus; AIDS, acquired immune deficiency syndrome.