

**Supplement Table. Definitions of covariates and clinical outcomes**

<b>Diagnosis</b>	<b>ICD-10 code</b>	<b>Diagnostic definition</b>
Atrial fibrillation	I480-484, I489	Admission or outpatient department $\geq$ 1
Valvular atrial fibrillation	I050, I052, I059, Z952-Z954	Admission or outpatient department $\geq$ 1
Myocardial infarction	I21, I22	Admission $\geq$ 1
Heart failure	I50	Admission or outpatient department $\geq$ 1
Ischemic stroke	I63, I64	Admission $\geq$ 1 and brain imaging (CT or MRI) $\geq$ 1
Intracranial hemorrhage	I60-62	Admission $\geq$ 1 or RBC transfusion $\geq$ 1
GI bleeding	K22.6, K25.0, K25.2, K25.4, K25.6, K26.0, K26.2, K26.4, K26.6, K27.0, K27.2, K27.4, K27.6, K28.0, K28.2, K28.4, K28.6, K29.0, K62.5, K92.0, K92.1, K92.2	Admission $\geq$ 1 and RBC transfusion $\geq$ 1
Major bleeding	Intracranial bleeding or GI bleeding	ICH, admission $\geq$ 1 or RBC transfusion $\geq$ 1 GI bleeding, admission $\geq$ 1 and RBC transfusion $\geq$ 1
Previous myocardial infarction	I21, I22	Admission or outpatient department $\geq$ 1
Previous stroke	I63, I64	Admission or outpatient department $\geq$ 1
Hypertension	I10-I13, I15; and minimum 1 prescription of anti-hypertensive drug (thiazide, loop diuretics, aldosterone	Admission $\geq$ 1 or outpatient department $\geq$ 1

	antagonist, alpha-blocker, calcium-channel blocker, angiotensin-converting enzyme inhibitor, angiotensin II receptor blocker)	
Previous major bleeding	Intracranial bleeding or GI bleeding (disease code only)	Admission or outpatient department $\geq$ 1
Previous venous thrombosis	I802	Admission or outpatient department $\geq$ 1
Previous thrombosis	I74	Admission or outpatient department $\geq$ 1
COPD	J41-44	Admission or outpatient department $\geq$ 1
Liver disease	K704, K711, K721, K729, K765, K766, K767, I850, I859, I864, I982, K700, K701, K702, K703, K709, K717, K713, K714, K715, K760, K762, K763, K764, K768, K769, Z944	Admission or outpatient department $\geq$ 1
Diabetes mellitus	E11-E14; and minimum 1 prescription of anti-diabetic drugs (sulfonylureas, metformin, meglitinides, thiazolidinediones, dipeptidyl peptidase-4 inhibitors, $\alpha$ -glucosidase inhibitors and insulin)	Admission or outpatient department $\geq$ 1
Pulmonary embolism	I26	Admission or outpatient department $\geq$ 1
Renal disease	N052 - N057, N250, I120, I131, N032-N037, Z490 -Z492,	Admission or outpatient department $\geq$ 1

	Z940, Z992	
Cancer	C00- C97	Admission or outpatient department $\geq$ 1
Alcohol abuse	F10	Admission or outpatient department $\geq$ 1
Anemia	D63	Admission or outpatient department $\geq$ 1

Medications	ATC Codes
ACEI or ARBs	C09AA01-16, C09BA01-09, C09BA12-13, C09BA15, C09BB02-07, C09BB10, C09BB12, C09BX01-05, C09CA01-10, C09DA01-10, C09DB01, C09DB02, C09DB04-09, C09DX01-07, C10BX04, C10BX06-07, C10BX10-18
Beta blocker	C07AA01-03, C07AA05-07, C07AA12, C07AA14-17, C07AA19, C07AA23, C07AA27, C07AB01-14, C07AG01-02, C07BA02, C07BA05-07, C07BA12, C07BA68, C07BB02-04, C07BB06-07, C07BB12, C07BB52, C07BG01, C07CA02, C07CA03, C07CA17, C07CA23, C07CB03, C07CB02-03, C07CB53, C07CG01, C07DA06, C07DB01, C07FB02-03, C07FB07, C07FB12-13, C07FX01-06
Calcium channel blocker	C07FB02, C07FB03, C07FB07, C07FB12, C07FB13, C08CA01-16, C08CA51, C08CA55, C08CX01, C08DA01, C08DA02, C08DA51, C08DB01, C08EA01-02, C08EX01-02, C08GA01-02, C09BB02-07, C09BB10, C09BB12, C09DB01-09, C09DX03, C10BX03
Statin	A10BH51-52, C10AA01-08, C10BA01-09, C10BX01-18

Abbreviations: ACEI, angiotensin-converting enzyme inhibitor; ARB, angiotensin receptor blocker; ATC, anatomical therapeutic chemical; COPD, chronic obstructive pulmonary disease; CT, computed tomography; GI, gastrointestinal; MI, myocardial infarction; MRI, magnetic resonance image; PAD, peripheral

artery disease.