

SUPPLEMENTAL DATA

Efficacy and Safety of Non-Vitamin K Antagonist Oral Anticoagulants Compared with Warfarin at its Best in Patients with Atrial Fibrillation

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Supplemental Table 1. Definitions of medical history

Covariate	ICD-10 or procedure code beginning with
Intracranial bleed	I60-62, S064-066 , I690-692
Gastrointestinal bleed	I850, I983, K226, K250, K252, K254, K256, K260, K262, K264, K266, K270, K272, K274, K276, K280, K284, K286, K290, K625, K661, K920, K921, K922
Urogenital bleed	N02, R319, N95
Other bleed	H431, R04, R58, D629, procedure code DR029
Ischaemic stroke	I63, I693
Unspecified stroke	I64, I694
Systemic emboli	I74
TIA	G45
Thromboembolism	I63-64, I693-694, I74, G45
Anaemia	D50-64
Coagulation or platelet defect	D65-69
Renal failure	N18-19, procedure codes DR016, DR024, KAS00, KAS10, KAS20
Liver disease	K70-77, procedure codes JJB, JJC
Heart failure	I50, I110, I130, I132, I255, K761, I42-43
Hypertension	I10-15
Diabetes	E10-14 or use of antidiabetic drug (ATC codes beginning with A10)
Vascular disease	I21, I22, I252, I70-73 (as in CHA ₂ DS ₂ -VASc)
Mitral stenosis	I342, I050, I052, Q232
Mechanical heart valve	Z952
Other valvular disease	I34-39, I05-08, Q22-23 except valvular atrial fibrillation
Pacemaker or ICD	Z950, Z450, procedure code FPE
Hypothyroidism	E00-03 , E890
Thyrotoxicosis	E05 within preceding year

COPD	J43-44
Asthma	J45-46
Cancer	Chapter C except C44 (basalioma) within preceding 3 years
Alcohol index ^a	E244, F10, G312, G621, G721, I426, K292, K70, K860, O354, P043, Q860, T51, Y90-91, Z502, Z714
Dementia	F00-03, F051, G300-301, G308-309
Frequent faller	≥2 hospitalisations with diagnosis W00-19 or R296
CHA ₂ DS ₂ -VASc score	1 point each for: heart failure, hypertension, age 65-74 years, diabetes, vascular disease, female sex and 2 points each for age ≥75 years and thromboembolism

^aA set of codes used by the Swedish Board of Health and Welfare for annual reporting alcohol related mortality in the population.

TIA, transient ischemic attack; ICD, implantable cardioverter defibrillator; COPD, chronic obstructive pulmonary disease

Supplemental Table 2. ICD-10 codes used to identify outcome events

Code	Meaning			
I60	Subarachnoid haemorrhage	Haemorrhagic stroke	Intracranial bleeding	Major bleeding
I61	Intracerebral haemorrhage			
I62	Sub- and epidural haemorrhages			
S064	Traumatic epidural haemorrhages			
S065	Traumatic subdural haemorrhages			
S066	Traumatic subarachnoid haemorrhages			
K226	Gastro-oesophageal laceration-haemorrhage syndrome		Gastrointestinal bleeding	
K25	Bleeding gastric ulcer (subcodes 0,2,4,6 only)			
K26	Bleeding duodenal ulcer (subcodes 0,2,4,6 only)			
K27	Bleeding peptic ulcer unspecified (subcodes 0,2,4,6 only)			
K28	Bleeding gastrojejunal ulcer (subcodes 0,2,4,6 only)			
K290	Acute haemorrhagic gastritis			
K625	Haemorrhage of anus and rectum			
K661	Haemoperitoneum			
K920-K922	Haematemesis, melena and unspecified GI bleeding			
I850 I983	Oesophageal varices with bleeding			
N02	Haematuria		Other bleeding	
R319	Haematuria, unspecified			
N939	Abnormal uterine and vaginal bleeding			
N950	Postmenopausal bleed			
N501A	Haemorrhage in male genital organ			
H113	Conjunctival haemorrhage			
H313	Choroidal haemorrhage			
H356	Retinal haemorrhage			
H431	Vitreous haemorrhage			
H450	Vitreous haemorrhage in diseases classified elsewhere			
H922	Ear bleeding			
I312	Haemopericardium			

J942	Haemothorax		
M250	Haemarthrosis		
R04	Nosebleed		
R58	Haemorrhage not elsewhere classified		
T810	Haemorrhage and haematoma complicating a procedure not elsewhere classified		
D500	Iron deficiency anaemia secondary to blood loss (chronic)		
D629	Anaemia after acute major bleeding		
DR029 DR033 Z513	Procedure codes for transfusion		
I63	Ischaemic stroke		
I64	Unspecified stroke		
I74	Systemic embolism		
I60-61 I63-64 I74	All-cause stroke or systemic embolism		
I21-22	Myocardial infarction		