

Variable	Univariable		Multivariable	
	HR (95% CI)	P-value	HR (95% CI)	P-value
Age (per 10-year increment)	1.34 (1.32-1.36)	<0.0001	1.48 (1.44-1.51)	<0.0001
Male	1.29 (1.21-1.37)	<0.0001	1.54 (1.44-1.65)	<0.0001
Oral anticoagulation		<0.0001		<0.0001
No OAC	Reference		Reference	
DOAC	1.19 (0.88-1.60)	0.263	0.93 (0.69-1.26)	0.647
VKA	2.27 (2.09-2.47)	<0.0001	1.35 (1.23-1.48)	<0.0001
Adenosine diphosphate inhibitor	1.36 (1.15-1.61)	<0.0001	0.89 (0.74-1.06)	0.194
Co-morbidity history				
Alcohol abuse	0.99 (0.91-1.07)	0.716	1.33 (1.21-1.46)	<0.0001
Atrial fibrillation	2.57 (2.41-2.74)	<0.0001	NA	
Cerebrovascular disease	2.10 (1.97-2.24)	<0.0001	1.40 (1.31-1.49)	<0.0001
Chronic pulmonary disease	1.07 (0.98-1.17)	0.148	0.94 (0.86-1.03)	0.151
Coagulopathy	2.44 (1.95-3.05)	<0.0001	1.77 (1.41-2.22)	<0.0001
Dementia	1.86 (1.72-2.01)	<0.0001	1.42 (1.31-1.54)	<0.0001
Diabetes	1.51 (1.41-1.63)	<0.0001	1.04 (0.97-1.13)	0.284
Drug abuse	2.35 (1.74-3.18)	<0.0001	0.75 (0.56-1.03)	0.072
Heart failure	2.42 (2.26-2.59)	<0.0001	1.45 (1.34-1.58)	<0.0001
Heart valve disease	1.81 (1.61-2.03)	<0.0001	1.04 (0.93-1.18)	0.491
Hypertension	1.66 (1.56-1.76)	<0.0001	0.97 (0.91-1.04)	0.423
Liver disease	1.60 (1.38-1.85)	<0.0001	1.72 (1.47-2.00)	<0.0001
Malignancy	1.76 (1.63-1.91)	<0.0001	1.18 (1.09-1.28)	<0.0001
Myocardial infarction	2.19 (2.00-2.39)	<0.0001	1.27 (1.16-1.40)	<0.0001
Paralysis	0.88 (0.62-1.25)	0.481	0.77 (0.54-1.09)	0.140
Peripheral vascular disease	2.27 (2.04-2.54)	<0.0001	1.28 (1.14-1.43)	<0.0001
Psychotic disorder	0.98 (0.87-1.11)	0.780	1.16 (1.02-1.32)	0.021
Rheumatic disease	1.13 (0.99-1.29)	0.080	0.97 (0.85-1.11)	0.683
Renal failure	2.35 (2.03-2.73)	<0.0001	1.35 (1.16-1.58)	0.0001
Skull or facial fracture		<0.0001	1.49 (1.35-1.63)	<0.0001
Admission location		<0.0001		<0.0001
Health center	Reference		Reference	
Other hospital	1.77 (1.61-1.95)	<0.0001	2.62 (2.37-2.88)	<0.0001
University hospital	3.26 (2.97-3.57)	<0.0001	5.46 (4.96-6.02)	<0.0001

DOAC, direct oral anticoagulant; VKA, vitamin K-antagonist (VKA); No OAC, no oral anticoagulation therapy

eTable 4. Association of baseline features of traumatic brain injury patients with 30-day case-fatality. Results of univariable and multivariable Cox models. Atrial fibrillation was not included in multivariable modelling because of multicollinearity with oral anticoagulation.