

Supplementary Table 4. Adjusted Hazards for GIB in Propensity Score-Matched Patients Treated with NOACs over Warfarin Group in the Overall Cohort (n = 79,528)

Variable	All GIB (n = 2,570)		Upper GIB (n = 764)		Lower GIB (n = 322)		GIB with transfusion (n = 1,446)	
	aHR (95% CI)	P-value	aHR (95% CI)	P-value	aHR (95% CI)	P-value	aHR (95% CI)	P-value
Warfarin	Reference		Reference		Reference		Reference	
NOACs	0.70 (0.63–0.78)	<0.001	0.89 (0.77–1.02)	0.098	0.99 (0.80–1.23)	0.937	0.69 (0.62–0.77)	<0.001
Apixaban	0.53 (0.43–0.65)	<0.001	0.81 (0.63–1.03)	0.089	0.86 (0.58–1.28)	0.462	0.52 (0.42–0.63)	<0.001
Dabigatran	0.62 (0.49–0.79)	<0.001	0.83 (0.62–1.11)	0.209	1.29 (0.88–1.89)	0.185	0.61 (0.48–0.77)	<0.001
Rivaroxaban	0.78 (0.70–0.88)	<0.001	0.93 (0.79–1.10)	0.396	0.96 (0.74–1.24)	0.751	0.78 (0.70–0.88)	<0.001
Warfarin without aspirin	Reference		Reference		Reference		Reference	
NOACs without aspirin	0.80 (0.74–0.87)	<0.001	0.85 (0.74–0.98)	0.034	1.02 (0.81–1.28)	0.875	0.68 (0.61–0.76)	<0.001
NOACs plus aspirin	0.99 (0.79–1.23)	0.892	1.04 (0.70–1.54)	0.853	1.13 (0.59–2.15)	0.717	0.75 (0.54–1.03)	0.070
Warfarin without antiplatelet ^a	Reference		Reference		Reference		Reference	
NOACs without antiplatelet ^a	0.80 (0.74–0.87)	<0.001	0.84 (0.72–0.97)	0.023	1.00 (0.80–1.27)	0.971	0.68 (0.61–0.76)	<0.001
NOACs plus antiplatelet ^a	0.93 (0.74–1.16)	0.510	0.91 (0.61–1.38)	0.669	1.34 (0.74–2.41)	0.334	0.69 (0.50–0.95)	0.022
Warfarin without PPI	Reference		Reference		Reference		Reference	
NOACs without PPI	0.84 (0.75–0.94)	0.002	0.87 (0.70–1.07)	0.197	1.14 (0.83–1.56)	0.434	0.73 (0.63–0.85)	<0.001
NOACs plus PPI	0.68 (0.61–0.77)	<0.001	0.70 (0.57–0.86)	<0.001	0.83 (0.60–1.15)	0.256	0.54 (0.46–0.63)	<0.001

Hazard ratio was adjusted by age, sex, index disease of anticoagulants, 17 comorbidities and previous medications.

^aAntiplatelets include clopidogrel, ticagrelor and prasugrel.

GIB, gastrointestinal bleeding; NOACs, non-vitamin K antagonist oral anticoagulants; aHR, adjusted hazard ratio; CI, confidence interval; PPI, proton pump inhibitor.