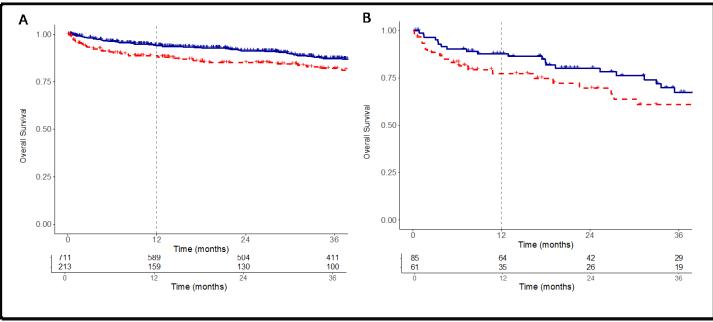
## <u>Supplement</u>

## Influence of thrombocytopenia on bleeding and vascular events in atrial fibrillation

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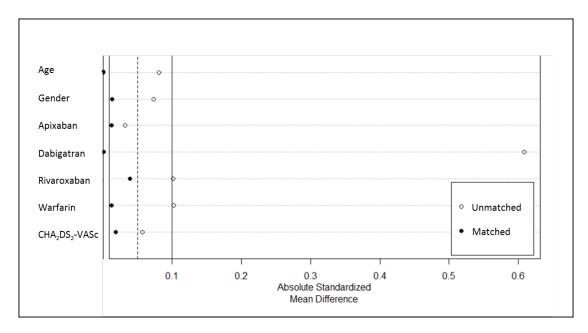




All-cause mortality in patients with baseline thrombocytopenia vs. normal platelet counts according to cancer status. (A)

Patients without cancer. (B) Patients with cancer. Thrombocytopenia in red, controls in blue.

Supplementary Figure 2. Assessment of Match.



Absolute standardized mean difference for baseline covariates before and after matching. All covariates have values

smaller than 0.05, indicating that the difference in means across cohorts were relatively small after matching.

	Thrombocytopenia n = 274	Control n = 801
Fotal cases, n	61	85
Cancer type, n (%)		
Brain	0 (0.0)	1 (1.2)
Breast	1 (1.6)	4 (4.7)
Gastrointestinal	10 (16.4)	9 (10.6)
Genitourinary	1 (1.6)	19 (22.4)
Gynecologic	0 (0.0)	6 (7.1)
Head and Neck	2 (3.3)	3 (3.5)
Hematologic	36 (59.0)	23 (27.1)
Lung	5 (8.2)	11 (12.9)
Skin	0 (0.0)	3 (3.5)
Other	6 (9.8)	6 (7.1)

## Supplementary Table 1: Cancer diagnoses

Supplementary Table 2. Univariable analysis, major bleeding

Characteristic	All patients (n=1070)		Platelet count <75,000/µL (n=519)		Platelet count 75,000-100,000/µL (n=551)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age > 65	1.96 (1.10-3.49)	0.02	3.26 (1.15-9.21)	0.03	1.44 (0.71-2.91)	0.31
Sex*	1 (0.64-1.56)	0.99	1.14 (0.59-2.19)	0.69	0.88 (0.48-1.63)	0.69
Hypertension	2.18 (1.38-3.42)	0.0008	1.59 (0.77-3.27)	0.21	2.72 (1.51-4.92)	0.0009
Cancer	0.78 (0.39-1.55)	0.48	0.70 (0.25-1.95)	0.49	0.88 (0.35-2.19)	0.78
Kidney disease	1.68 (0.89-3.18)	0.11	1.75 (0.68-4.48)	0.25	1.6 (0.68-3.78)	0.28
Prior Bleed	1.01 (0.24-4.26)	0.99	1.47 (0.19-11.01)	0.71	0.74 (0.10-5.66)	0.77
Thrombocytopenia	2.48 (1.60-3.84)	<0.0001	2.36 (1.23-4.51)	0.009	2.57 (1.42-4.65)	0.002
Anticoagulant**	1.29 (0.83-2)	0.25	1.22 (0.64-2.32)	0.55	1.34 (0.74-2.44)	0.33
Antiplatelet	1.51 (0.88-2.61)	0.14	2.05 (0.86-4.87)	0.1	1.19 (0.59-2.4)	0.64

\* Hazard ratios are for the female group as compared with the male group.

\*\* Harzard ratios are for the warfarin group as compared with the direct-acting oral anticoagulant group

Supplementary Table 3. Univariable analysis, clinically relevant non-major bleeding

Characteristic	All patients (n=1070)		Platelet count <75,000/µL (n=519)		Platelet count 75,000-100,000/µL (n=551)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age > 65	1.2 (0.87-1.66)	0.26	1.52 (0.9-2.56)	0.11	1.02 (0.68-1.54)	0.92
Sex*	0.9 (0.67-1.2)	0.47	0.87 (0.56-1.35)	0.53	0.92 (0.62-1.34)	0.65
Hypertension	1.63 (1.21-2.21)	0.002	1.46 (0.91-2.36)	0.12	1.74 (1.18-2.58)	0.005
Kidney disease	1.44 (0.93-2.22)	0.1	1.7 (0.9-3.24)	0.1	1.24 (0.68-2.23)	0.48
Cancer	0.91 (0.6-1.39)	0.67	0.65 (0.33-1.28)	0.21	1.21 (0.71-2.04)	0.48
Prior Bleed	1.1 (0.42-2.85)	0.85	0.61 (0.08-4.65)	0.63	1.33 (0.44-4)	0.61
Thrombocytopenia	1.53 (1.14-2.05)	0.005	1.48 (0.94-2.31)	0.09	1.56 (1.05-2.32)	0.03
Anticoagulant**	1.14 (0.86-1.5)	0.37	1.23 (0.81-1.87)	0.33	1.06 (0.73-1.53)	0.77
Antiplatelet	1.32 (0.95-1.84)	0.1	1.46 (0.89-2.4)	0.14	1.2 (0.77-1.88)	0.42

\* Hazard ratios are for the female group as compared with the male group.

\*\* Harzard ratios are for the warfarin group as compared with the direct-acting oral anticoagulant group

Supplementary Table 4. Multivariable analysis, clinically relevant non-major bleeding

Characteristic	All patients (n=1070)		Platelet count <75,000/µL (n=519)		Platelet count 75,000-100,000/µL (n=551)	
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value
Age > 65	1.19 (0.86-1.65)	0.3	1.66 (0.98-2.8)	0.06	0.95 (0.61-1.46)	0.8
Sex*	0.89 (0.66-1.19)	0.42	0.85 (0.54-1.32)	0.46	0.9 (0.6-1.35)	0.61
Hypertension	1.37 (0.97-1.94)	0.08	1.2 (0.68-2.12)	0.53	1.56 (1-2.45)	0.05
Kidney disease	1.31 (0.85-2.02)	0.23	1.63 (0.83-3.2)	0.16	1.16 (0.65-2.08)	0.62
Cancer	0.86 (0.56-1.32)	0.48	0.54 (0.26-1.11)	0.09	1.23 (0.73-2.09)	0.44
Prior Bleed	1.07 (0.41-2.79)	0.89	0.49 (0.06-3.68)	0.49	1.52 (0.5-4.68)	0.46
Thrombocytopenia	1.32 (0.94-1.85)	0.11	1.53 (0.89-2.65)	0.13	1.27 (0.82-1.95)	0.28
Anticoagulant**	1.11 (0.83-1.47)	0.49	1.26 (0.82-1.94)	0.3	1.05 (0.71-1.55)	0.79
Antiplatelet	1.2 (0.85-1.69)	0.3	1.32 (0.78-2.21)	0.3	1.08 (0.67-1.73)	0.75

\* Hazard ratios are for the female group as compared with the male group.

\*\* Harzard ratios are for the warfarin group as compared with the direct-acting oral anticoagulant group

Characteristic	All patients (n	All patients (n=1070) Platelet count <75,000/µL (n=519)		Ю/µL (n=519)	Platelet count 75,000-100,000/µL (n=551)				
Arterial Thrombosis									
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value			
Age > 65	1.37 (0.51-3.71)	0.54	1.92 (0.42-8.75)	0.4	0.97 (0.25-3.75)	0.97			
Sex*	1.35 (0.59-3.13)	0.48	1.70 (0.55-5.26)	0.35	1.04 (0.29-3.67)	0.95			
Diabetes	1.77 (0.6-5.22)	0.3	1.64 (0.36-7.5)	0.52	1.96 (0.43-9.06)	0.39			
Heart Failure	1.01 (0.3-3.39)	0.99	1.52 (0.33-6.93)	0.59	0.62 (0.08-4.78)	0.65			
Hypertension	1.74 (0.71-4.26)	0.22	3.03 (0.96-9.5)	0.06	0.86 (0.19-3.97)	0.84			
Ischemic heart disease	2.02 (0.79-5.13)	0.14	3.15 (0.96-10.37)	0.06	1.19 (0.26-5.54)	0.82			
Cancer	1.91 (0.7-5.16)	0.2	1.20 (0.26-5.47)	0.81	3.02 (0.78-11.62)	0.11			
Thrombocytopenia	2.08 (0.89-4.88)	0.09	4.38 (1.39-13.78)	0.01	0.73 (0.16-3.45)	0.7			
Anticoagulant**	2.29 (0.94-5.61)	0.07	2.24 (0.68-7.36)	0.18	2.38 (0.61-9.2)	0.21			
Antiplatelet	2.32 (0.69-7.82)	0.17	1.92 (0.42-8.76)	0.4	3.18 (0.4-25.02)	0.27			
Venous Thrombosis									
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value			
Age > 65	1.31 (0.43-4.02)	0.63	0.67 (0.2-2.29)	0.52	_	_			
Sex*	2.33 (0.89-6.11)	0.09	2.99 (0.88-10.14)	0.08	1.57 (0.32-7.72)	0.58			
Cancer	1.99 (0.65-6.09)	0.23	2.24 (0.6-8.4)	0.23	1.4 (0.16-12.05)	0.76			
Thrombocytopenia	4.31 (1.64-11.33)	0.003	8.29 (2.2-31.27)	0.002	1.48 (0.27-8.05)	0.65			
Anticoagulant**	1.21 (0.46-3.13)	0.7	0.94 (0.29-3.09)	0.92	2.04 (0.37-11.14)	0.41			
Antiplatelet	0.88 (0.31-2.48)	0.8	1.03 (0.27-3.86)	0.97	0.7 (0.13-3.79)	0.68			

Supplementary Table 5. Univariable analysis, thrombosis

\* Hazard ratios are for the female group as compared with the male group.

\*\* Harzard ratios are for the warfarin group as compared with the direct-acting oral anticoagulant group

Characteristic	All patients (r	All patients (n=1070) Platelet count <75,000/µL (n=519)			Platelet count 75,000-100,000/µL (n=55)				
Arterial Thrombosis									
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value			
Age > 65	1.27 (0.46-3.5)	0.65	1.97 (0.43-9.08)	0.38	0.85 (0.21-3.37)	0.81			
Sex	1.31 (0.57-3.01)	0.52	1.73 (0.59-5.06)	0.32	0.91 (0.25-3.22)	0.88			
Diabetes	1.15 (0.39-3.44)	0.8	0.65 (0.15-2.89)	0.57	4.28 (1.25-14.62)	0.02			
Heart Failure	0.44 (0.12-1.55)	0.2	0.41 (0.06-2.72)	0.35	0.29 (0.02-3.93)	0.35			
Hypertension	0.95 (0.35-2.62)	0.93	1.32 (0.36-4.9)	0.68	0.41 (0.18-0.96)	0.04			
Ischemic heart disease	1.90 (0.8-4.55)	0.15	2.46 (0.85-7.1)	0.1	1.95 (0.5-7.61)	0.34			
Cancer	2.21 (0.81-6.02)	0.12	0.86 (0.17-4.19)	0.85	4.00 (1.05-15.23)	0.04			
Thrombocytopenia	1.79 (0.6-5.37)	0.3	4.23 (0.81-22.04)	0.09	0.61 (0.09-4.29)	0.62			
Anticoagulant	2.47 (1.03-5.93)	0.04	2.36 (0.71-7.81)	0.16	2.99 (0.84-10.6)	0.09			
Antiplatelet	2.06 (0.6-7.14)	0.25	1.66 (0.31-8.81)	0.55	2.95 (0.34-25.37)	0.32			
Venous Thrombosis									
	HR (95% CI)	P-value	HR (95% CI)	P-value	HR (95% CI)	P-value			
Age > 65	1.18 (0.38-3.63)	0.77	0.57 (0.17-1.91)	0.36	_	_			
Sex*	2.28 (0.86-6.07)	0.1	3.29 (0.96-11.26)	0.06	1.54 (0.35-6.83)	0.57			
Cancer	1.54 (0.42-5.69)	0.52	1.25 (0.31-5)	0.76	1.71 (0.14-20.32)	0.67			
Thrombocytopenia	4.17 (1.60-10.85)	0.003	7.76 (2.06-29.25)	0.002	1.62 (0.3-8.79)	0.58			
Anticoagulant**	1.34 (0.46-3.85)	0.59	1.00 (0.29-3.45)	0.99	2.30 (0.38-14.04)	0.37			
Antiplatelet	0.84 (0.29-2.45)	0.75	1.32 (0.31-5.56)	0.71	0.59 (0.1-3.47)	0.56			

Supplementary Table 6. Multivariable analysis, thrombosis

P < 0.05, statistically significant

\* Hazard ratios are for the female group as compared with the male group.

\*\* Harzard ratios are for the warfarin group as compared with the direct-acting oral anticoagulant group