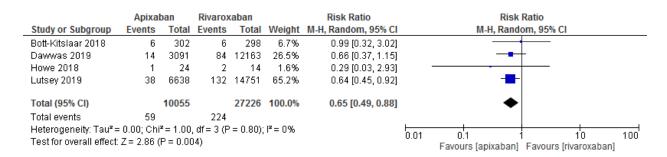
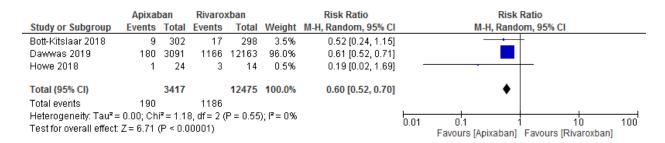


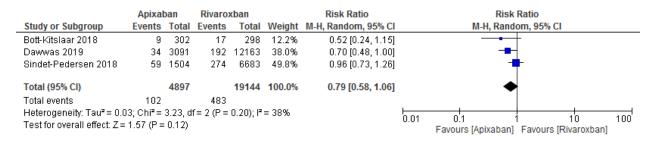
### Supplementary file figure 1 – (removing Howe et al.) – sensitivity analysis



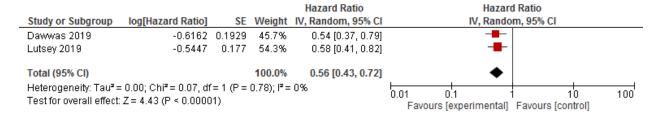
## Supplementary file figure 2 – (removing Sindet-Pederson et al.) – sensitivity analysis



#### Supplementary file figure 3: composite of major and minor bleeding



Supplementary file figure 4: composite of major bleeding and VTE recurrence



## Supplementary file figure 5: HR of major bleeding in 3 months

Outcome	Number of	Number of	Risk ratio ( 95% CI)	P value	Heterogeneity (I <sup>2</sup> %)					
	studies	Patients								
Apixaban vs. Rivaroxaban										
Recurrent VTE	3	24,041	0.89 (0.67 - 1.19)	0.45	0%					
Major Bleeding	5	45,468	0.73 (0.58 - 0.93)	0.010	0%					
Minor Bleeding	3	15,892	0.59 (0.50 - 0.70)	<0.01	0%					
Composite of major and	2	15,854	0.60 (0.52 - 0.69)	<0.01	0%					
minor bleeding										
Composite of VTE and major	3	24,041	0.77 (0.58-1.06)	0.12	38%					
bleeding										
Hazard ratio for major bleeding at 3 months: 0.56 (CI: 0.43-0.72, I <sup>2</sup> : 0%, P<0.01)										

# Supplementary Table 1: Total number of efficacy and safety end point events in apixaban and rivaroxaban patients

CI = confidence interval

VTE = venous thromboembolism

Included studies	Selection				Comparability Outcome		Outcome		Classification
Study (Year)	Representative- ness of exposure group	Representative- ness of the non- exposed group	Ascertain- ment of exposure	Determination that outcome not present initially	Comparison of cohorts	Assessment of outcome	Long enough follow-up?	Adequacy of follow- up?	
Sindet- Pedersen (2018)	Yes	Yes	Secure record	Yes	Yes	Reported	Yes (3 mos and 6 mos)	No (lost to follow-up not reported)	7
<u>Lutsey</u> (2019)	Yes	Yes	Secure record	Yes	Yes	Major bleeding reported (minor missing)	Yes (90 days)	No (lost to follow-up not reported)	6
Bott-Kitslaar (2018)	Yes	Yes	No - Not reported	Yes	Yes	Reported	Yes (3 mos)	No (lost to follow-up not reported)	6
Dawwas (2019)	Yes	Yes	Secure record	Yes	Yes	Reported	Yes (99 days)	No (lost to follow-up not reported)	7
Howe (2018)	Yes	Yes	Secure record	Yes	Yes	Reported	Yes (180 days)	No (lost to follow-up not reported)	7