

ESM 4. Supplementary Table 3. Comparison of direct and indirect effects (p-values) for all outcomes

Outcome Comparison	Stroke	Major bleeding	Intracranial bleeding	Gastrointestinal bleeding	Myocardial infarction	Deaths
D-V	0.158	0.702	0.480	0.286	0.119	0.652
R-V	0.273	0.704	0.388	0.347	0.120	0.326
A-V	0.655	0.808	0.196	0.693	-	0.601
D-R	0.943	0.235	0.206	0.258	0.246	0.306
D-A	0.477	0.342	0.639	0.939	-	0.720
R-A	0.367	0.473	0.610	0.696	-	0.865

D...dabigatran; R...rivaroxaban; A...apixaban; V...vitamin K antagonist.