

## **Results of Meta-analyses**

Supplement to: Makam RCP, Hoaglin DC, McManus DD, Wang V, Gore JM, Spencer FA, Pradhan R, Tran H, Yu H, Goldberg RJ. Efficacy and safety of direct oral anticoagulants approved for cardiovascular indications: systematic review and meta-analysis.

## Results of Meta-analyses: Non-valvular atrial fibrillation

### Efficacy

#### Data Used

<b>Trial</b>	<b>Drug</b>	<b>Sample Size</b>	<b>Stroke or Systemic Embolism (PO)</b>	<b>Systemic Embolism</b>	<b>Any Stroke</b>	<b>Hemorrhagic Stroke</b>	<b>Death from Any Cause</b>	<b>Death from Vascular Causes</b>	<b>Myocardial Infarction</b>
<b>ARISTOTLE</b>	Apixaban	9120	212	15	199	40	603		90
<b>ENGAGE-AF</b>	Edoxaban	7035	182	15	281	49	773	530	133
<b>RE-LY - 150</b>	Dabigatran	6076	134		122	12	438	274	97
<b>ROCKET I</b>	Rivaroxaban	6958	188	5	184	29	208	170	101
<b>ARISTOTLE</b>	Warfarin	9081	265	17	250	78	669		102
<b>ENGAGE-AF</b>	Warfarin	7036	232	23	317	90	839	611	141
<b>RE-LY - 150</b>	Warfarin	6022	202		186	45	487	317	75
<b>ROCKET I</b>	Warfarin	7004	241	22	221	50	250	193	126

## Stroke or systemic embolism

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
14.2	14.7	-1.1	2.2	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.99625	-0.24489	0.01467	0.28001	0.87612

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.48348	0.05131	-67.90	< 2e-16 ***
as.factor(arm)1	-0.28148	0.05031	-5.59	2.21e-08 ***
as.factor(id)2	0.11877	0.06815	1.74	0.0814 .
as.factor(id)3	0.06000	0.07223	0.83	0.4062
as.factor(id)4	0.16306	0.06753	2.41	0.0158 *

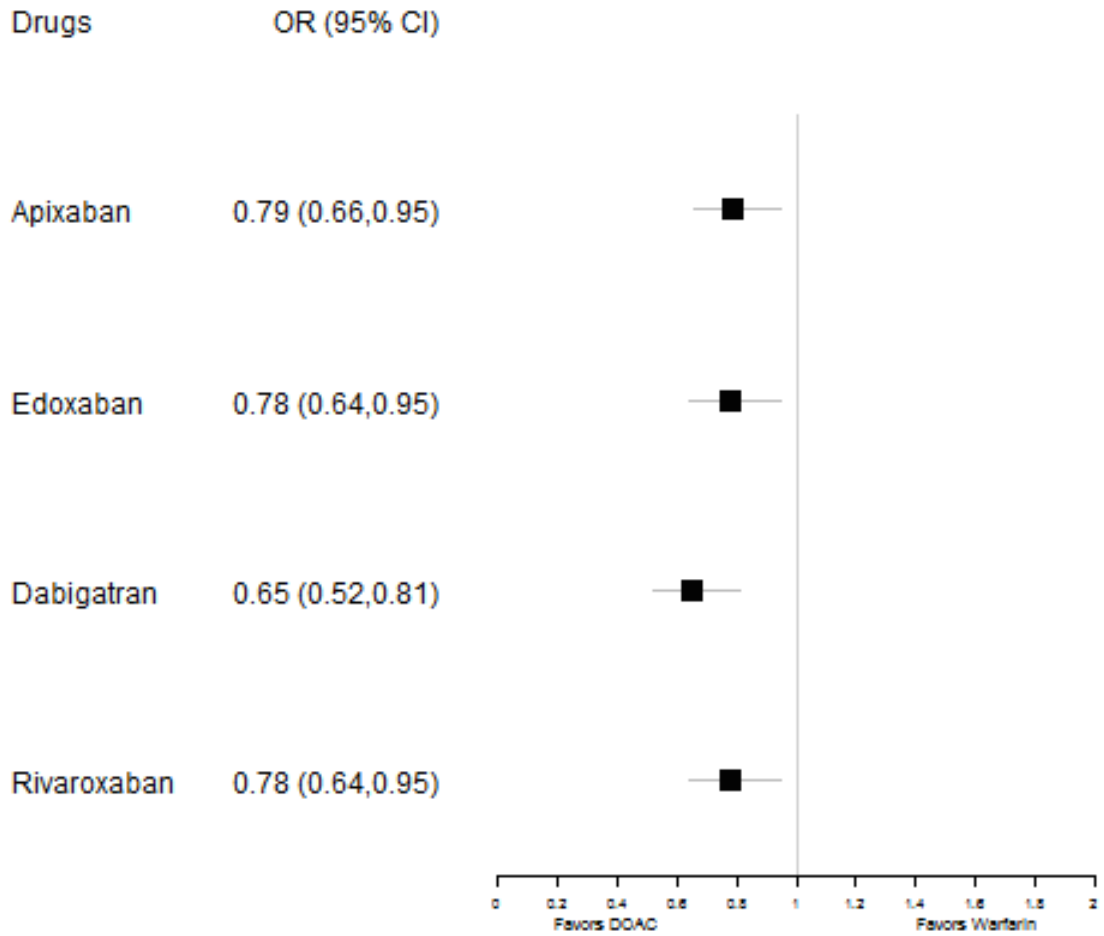
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.426			
as.fctr(d)2	-0.616	0.000		
as.fctr(d)3	-0.581	-0.001	0.438	
as.fctr(d)4	-0.622	0.002	0.468	0.442

### Odds Ratio of Studies for Stroke or Systemic Embolism (PO)



## Systemic embolism

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']  
Family: binomial ( logit )  
Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
15.7	14.6	-2.8	5.7	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.43128	-0.59779	0.04713	0.79839	1.05525

Random effects:

Groups	Name	Variance	Std.Dev.
id	arm	0.009755	0.09877

Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-6.1055	0.2783	-21.937	<2e-16 ***
as.factor(arm)1	-0.5800	0.2611	-2.222	0.0263 *
as.factor(id)2	0.4368	0.2821	1.549	0.1215
as.factor(id)4	0.1206	0.5722	0.211	0.8331

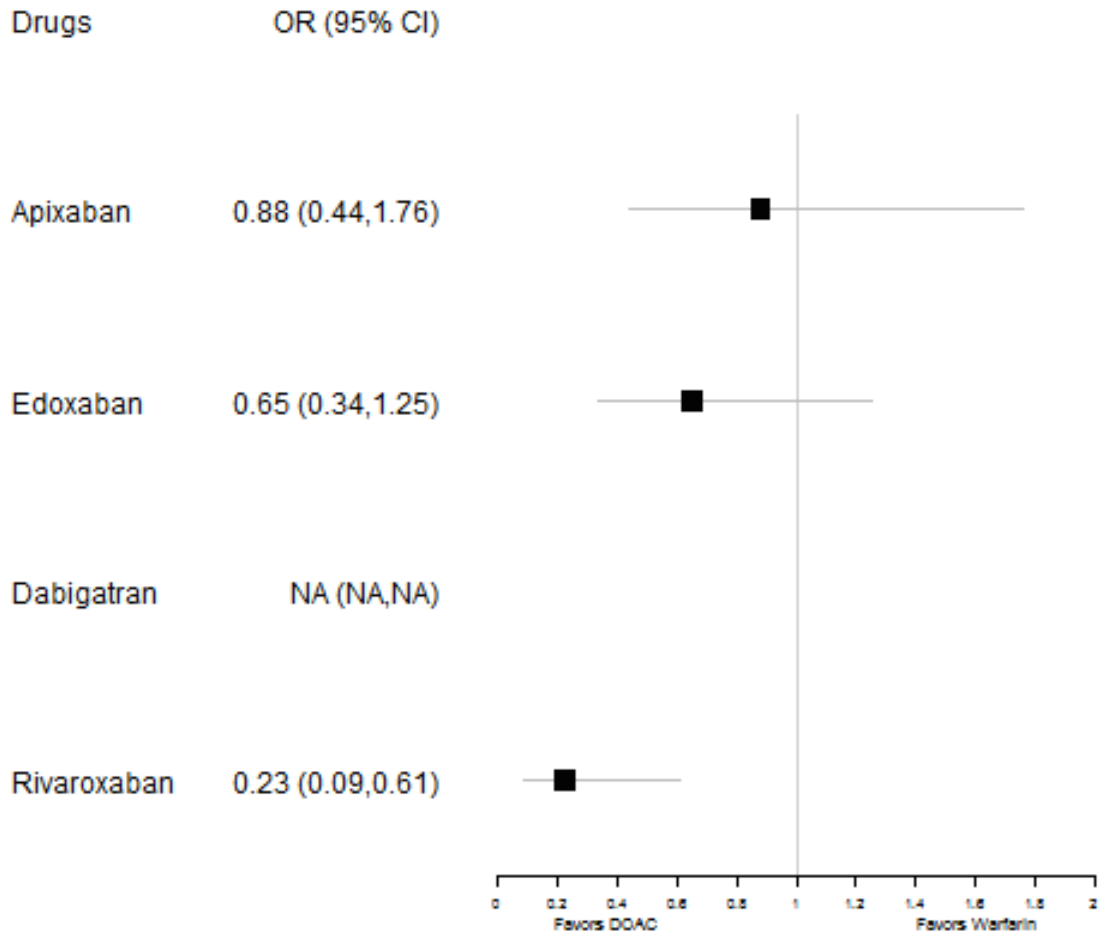
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	
as.fctr(r)1	0.158		
as.fctr(d)2	-0.768	-0.262	
as.fctr(d)4	-0.836	-0.475	0.639

### Odds Ratio of Studies for Systemic Embolism



## Any stroke

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
17.0	17.5	-2.5	5.0	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.38088	-0.39535	-0.00596	0.43917	1.24798

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.57156	0.05255	-67.97	< 2e-16 ***
as.factor(arm)1	-0.22261	0.04872	-4.57	4.9e-06 ***
as.factor(id)2	0.56235	0.06349	8.86	< 2e-16 ***
as.factor(id)3	0.03259	0.07495	0.43	0.664
as.factor(id)4	0.16591	0.06948	2.39	0.017 *

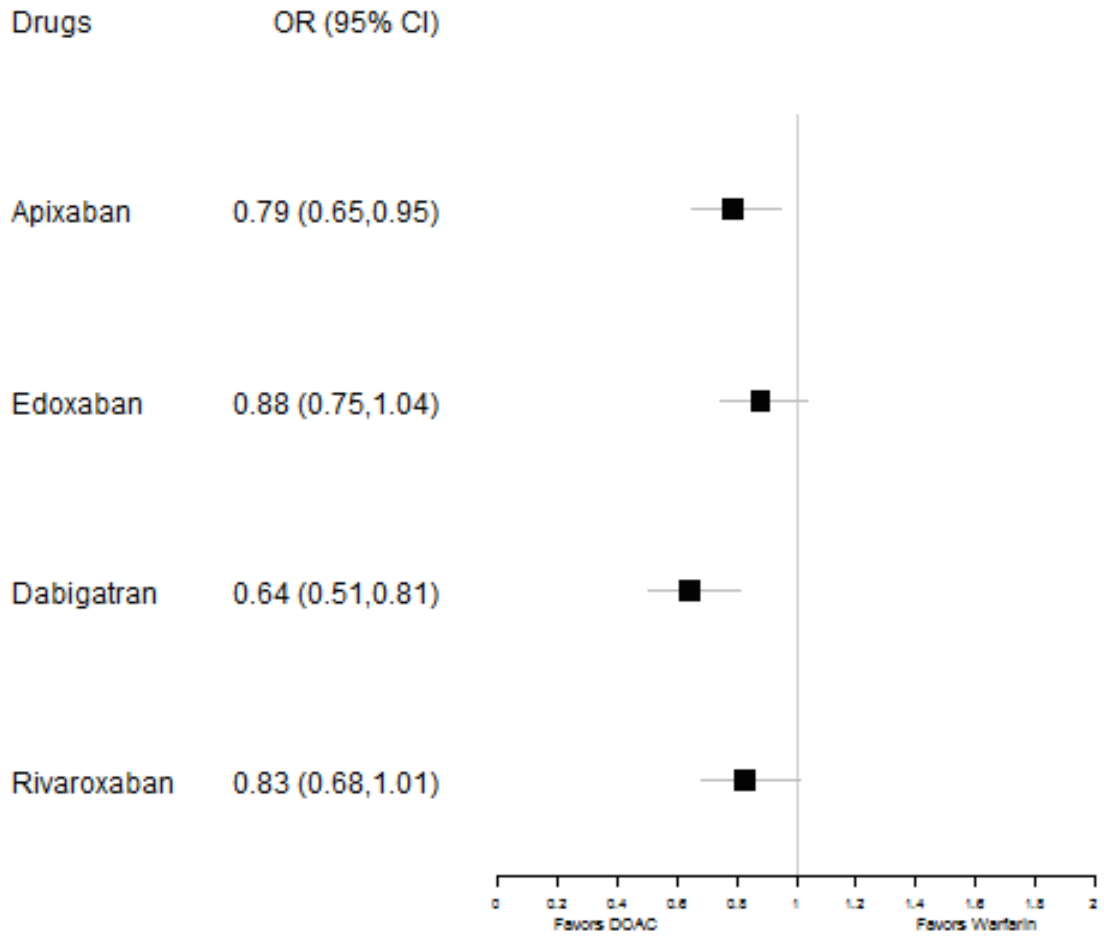
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.416			
as.fctr(d)2	-0.684	-0.001		
as.fctr(d)3	-0.580	-0.001	0.480	
as.fctr(d)4	-0.626	0.002	0.518	0.439

### Odds Ratio of Studies for Any Stroke





## Hemorrhagic stroke

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
17.0	17.4	-2.5	5.0	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.59536	-0.33959	0.02125	0.48220	1.12681

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.73703	0.09907	-47.82	< 2e-16 ***
as.factor(arm)1	-0.71079	0.10756	-6.61	3.89e-11 ***
as.factor(id)2	0.42421	0.12574	3.37	0.000742 ***
as.factor(id)3	-0.32039	0.16178	-1.98	0.047657 *
as.factor(id)4	-0.13888	0.14586	-0.95	0.341011

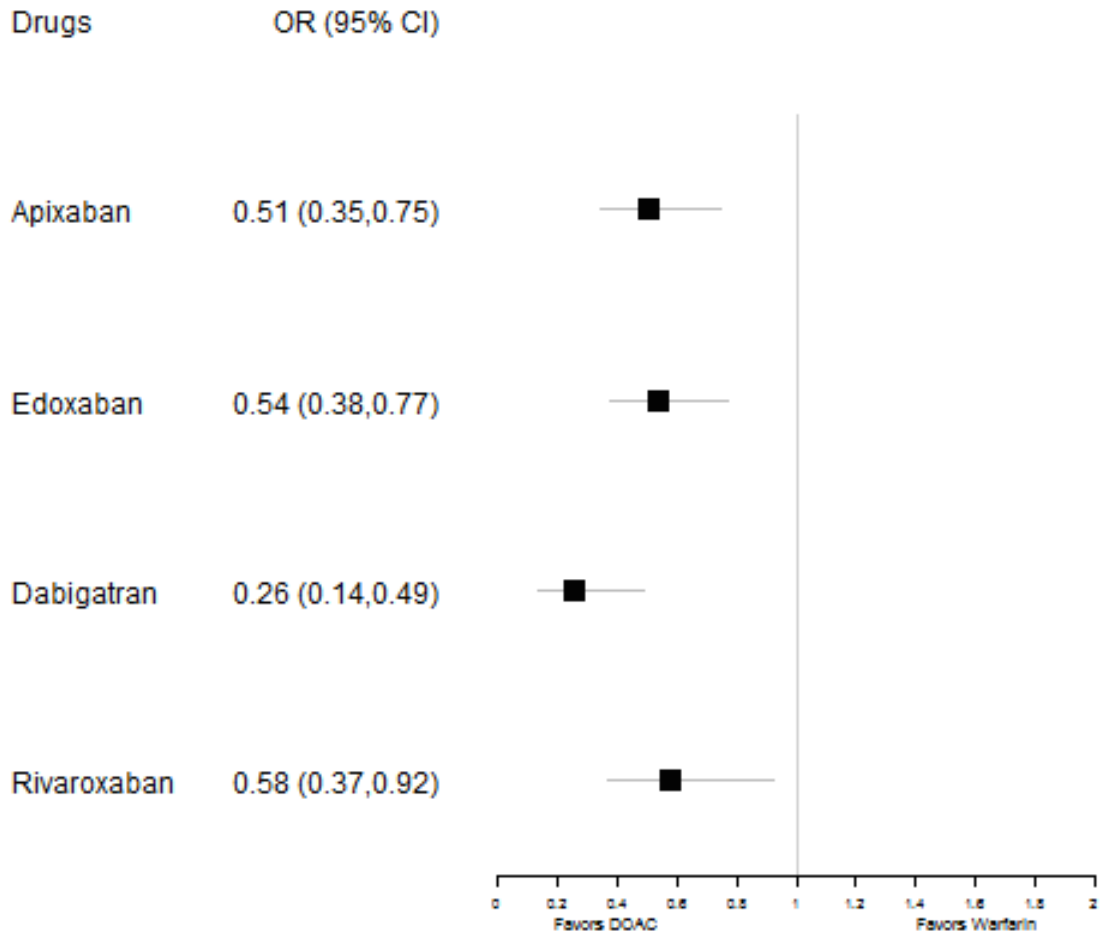
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.361			
as.fctr(d)2	-0.685	0.000		
as.fctr(d)3	-0.533	0.000	0.420	
as.fctr(d)4	-0.591	0.002	0.465	0.362

### Odds Ratio of Studies for Hemorrhagic Stroke



## Death from any cause

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
12.7	13.2	-0.4	0.7	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.50637	-0.13996	0.00019	0.14102	0.47788

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-2.53133	0.03283	-77.10	< 2e-16 ***
as.factor(arm)1	-0.11691	0.03203	-3.65	0.000263 ***
as.factor(id)2	0.54349	0.03932	13.82	< 2e-16 ***
as.factor(id)3	0.09713	0.04490	2.16	0.030526 *
as.factor(id)4	-0.79588	0.05571	-14.29	< 2e-16 ***

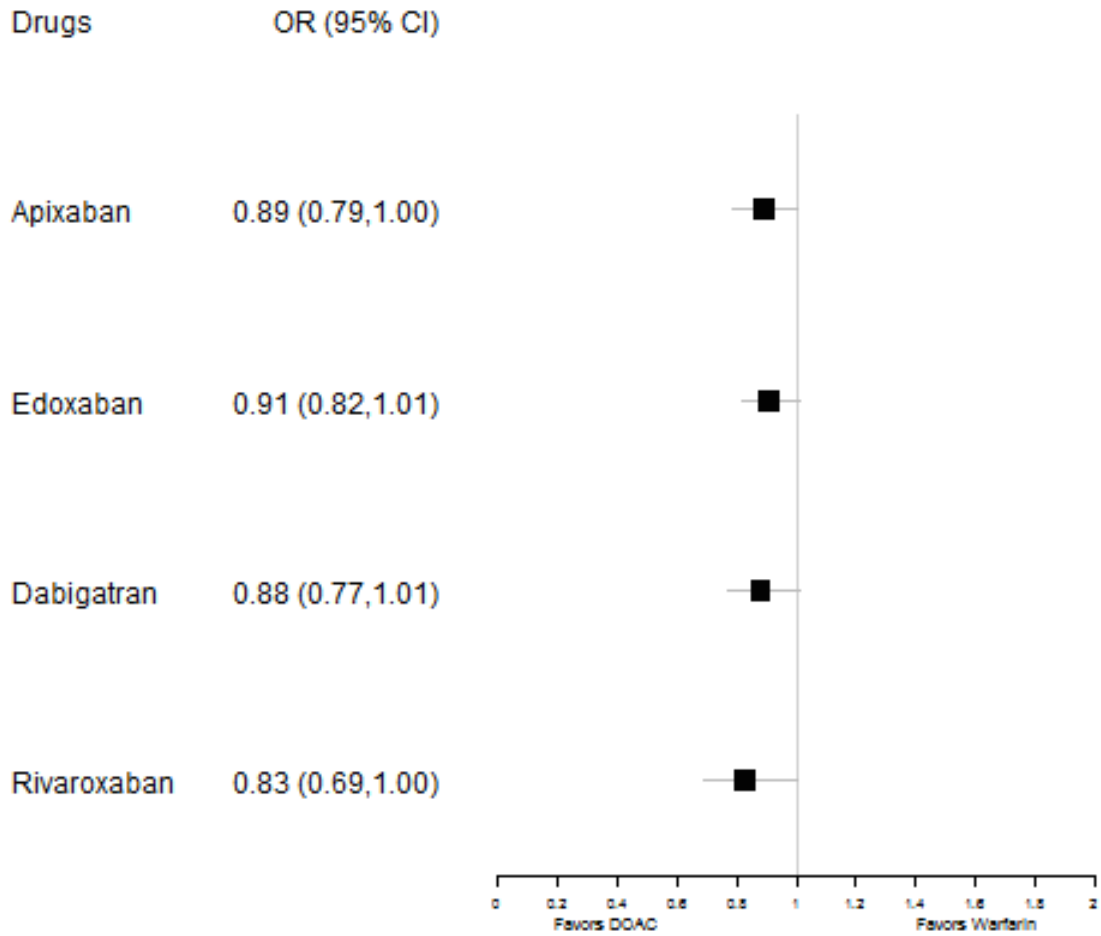
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.464			
as.fctr(d)2	-0.654	-0.001		
as.fctr(d)3	-0.573	-0.001	0.479	
as.fctr(d)4	-0.464	0.003	0.386	0.338

### Odds Ratio of Studies for Death from Any Cause



## Death from vascular causes

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
10.1	9.0	0.0	0.1	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.177361	-0.082998	-0.001193	0.077870	0.191178

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-2.35440	0.03746	-62.86	< 2e-16 ***
as.factor(arm)1	-0.15130	0.04523	-3.34	0.000823 ***
as.factor(id)3	-0.54109	0.05228	-10.35	< 2e-16 ***
as.factor(id)4	-1.19626	0.06151	-19.45	< 2e-16 ***

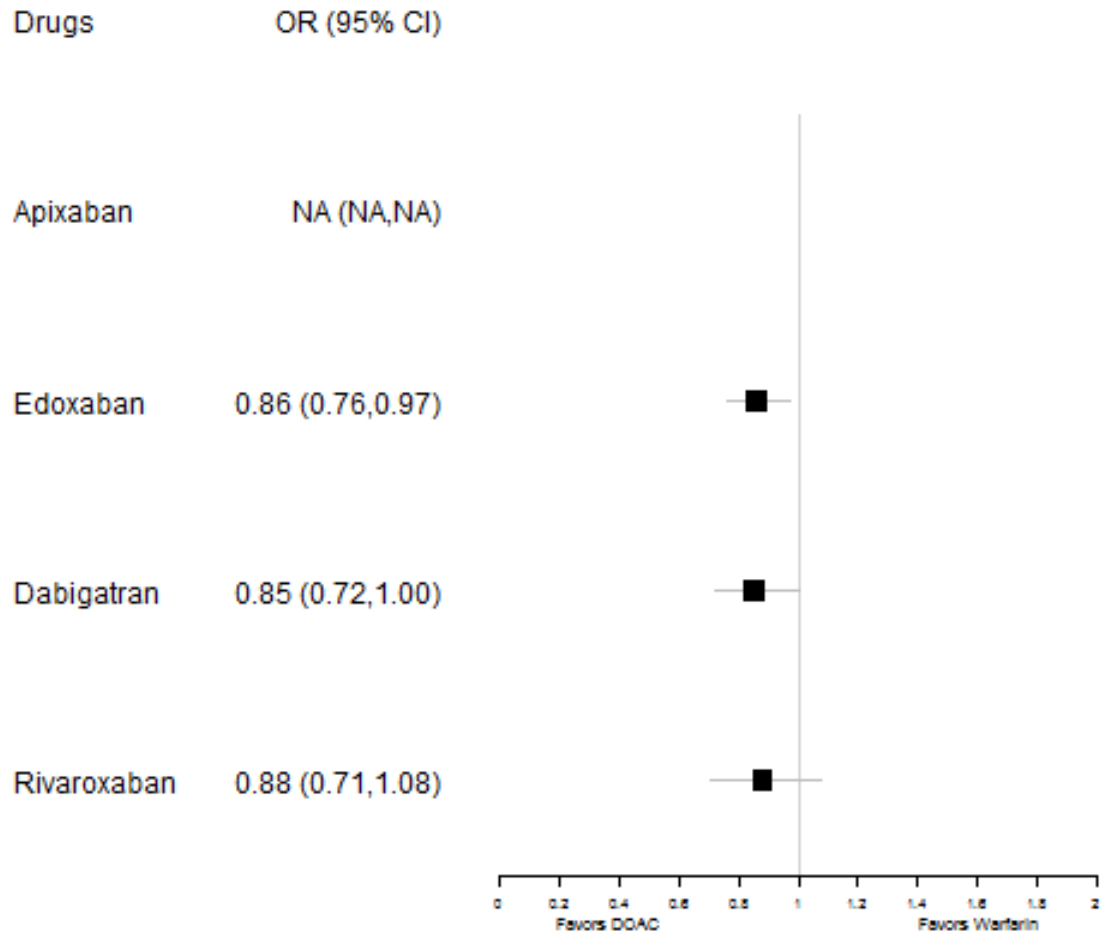
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()3
as.fctr(r)1	-0.566		
as.fctr(d)3	-0.487	0.000	
as.fctr(d)4	-0.417	0.004	0.297

### Odds Ratio of Studies for Death from Vascular Causes



## Myocardial infarction

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
17.7	18.2	-2.9	5.7	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.39079	-0.49761	-0.00034	0.48434	1.42209

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.51394	0.07989	-56.51	< 2e-16 ***
as.factor(arm)1	-0.05500	0.06856	-0.80	0.42243
as.factor(id)2	0.62200	0.09479	6.56	5.33e-11 ***
as.factor(id)3	0.30222	0.10565	2.86	0.00423 **
as.factor(id)4	0.43823	0.09870	4.44	9.00e-06 ***

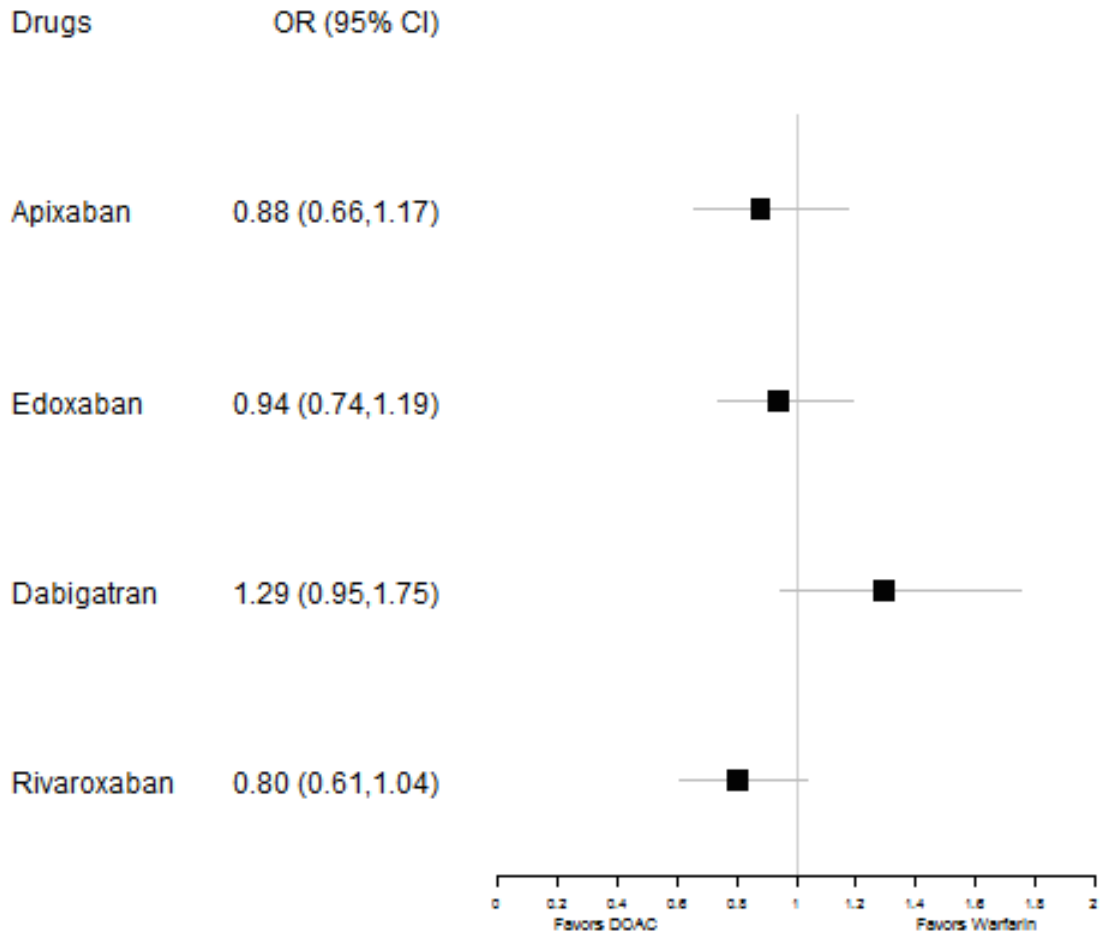
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.419			
as.fctr(d)2	-0.695	0.001		
as.fctr(d)3	-0.623	-0.001	0.526	
as.fctr(d)4	-0.668	0.002	0.563	0.505

### Odds Ratio of Studies for Myocardial Infarction





# Safety

## Data Used

<b>STUDY</b>	<b>Drug</b>	<b>Sample Size</b>	<b>Major Bleeding</b>	<b>Fatal Bleeding</b>	<b>Intracranial Bleeding</b>	<b>Gastrointestinal Bleeding</b>
<b>ARISTOTLE</b>	Apixaban	9088	327	34	52	105
<b>ENGAGE AF-TIMI 48 (high dose)</b>	Edoxaban	7012	418	32	61	232
<b>RE-LY - 150</b>	Dabigatran	6076	399		38	188
<b>ROCKET AF</b>	Rivaroxaban	7111	395	27	55	224
<b>ARISTOTLE</b>	Warfarin	9052	462	55	122	119
<b>ENGAGE AF-TIMI 48 (high dose)</b>	Warfarin	7012	524	59	132	190
<b>RE-LY - 150</b>	Warfarin	6022	421		90	126
<b>ROCKET AF</b>	Warfarin	7125	386	55	84	154

## Major bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
24.0	24.5	-6.0	12.0	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.55360	-0.30118	-0.00809	0.30982	0.49351

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.01477	0.1215
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-2.94592	0.04901	-60.11	< 2e-16 ***
as.factor(arm)1	-0.16368	0.07060	-2.32	0.0204 *
as.factor(id)2	0.42121	0.06342	6.64	3.10e-11 ***
as.factor(id)3	0.36998	0.07007	5.28	1.29e-07 ***
as.factor(id)4	0.11146	0.07467	1.49	0.1355

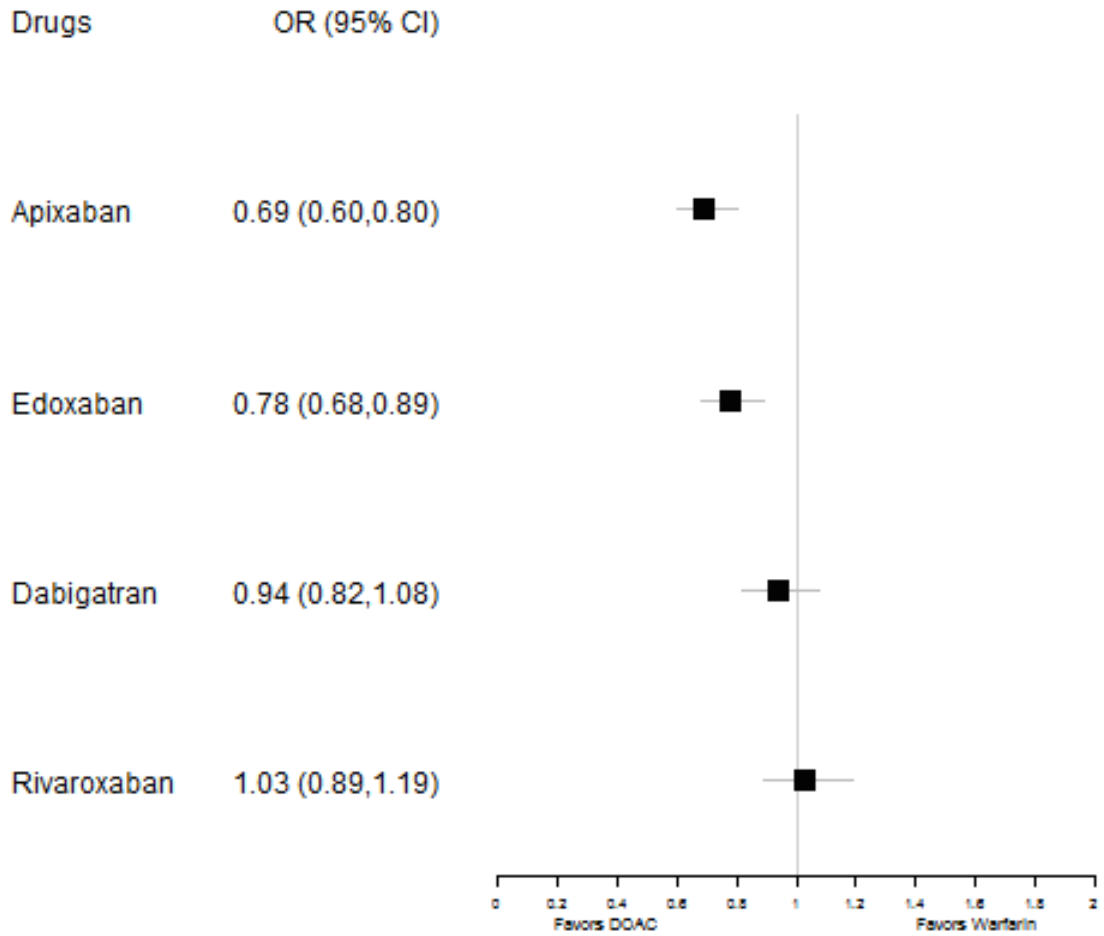
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.165			
as.fctr(d)2	-0.719	0.008		
as.fctr(d)3	-0.720	-0.013	0.522	
as.fctr(d)4	-0.717	-0.018	0.510	0.561

### Odds Ratio of Studies for Major Bleeding



## Fatal bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
10.5	9.5	-0.3	0.5	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.3823	-0.2467	-0.0067	0.2225	0.4188

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-5.0552	0.1159	-43.63	< 2e-16 ***
as.factor(arm)1	-0.6014	0.1295	-4.65	3.39e-06 ***
as.factor(id)2	0.2807	0.1495	1.88	0.0605 .
as.factor(id)4	0.1605	0.1535	1.05	0.2958

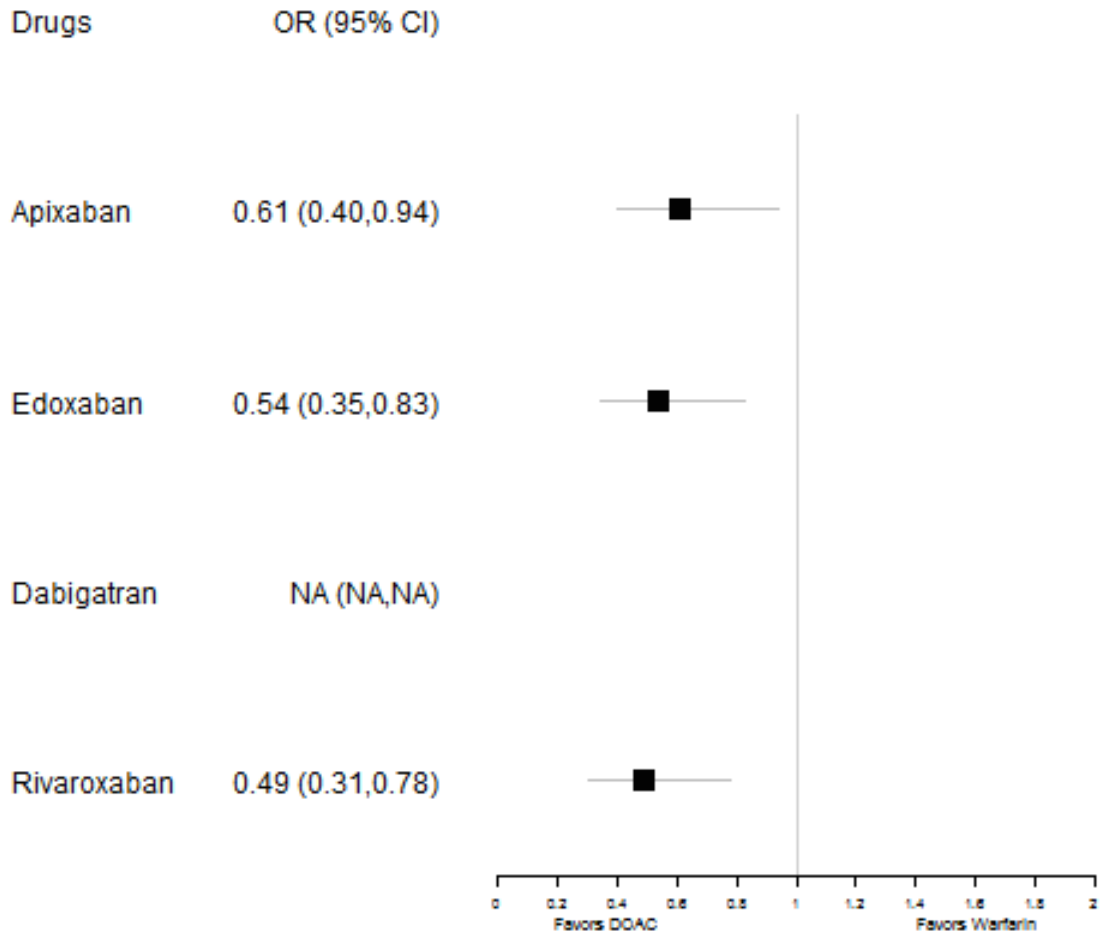
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()2
as.fctr(r)1	-0.398		
as.fctr(d)2	-0.652	0.000	
as.fctr(d)4	-0.635	0.001	0.492

### Odds Ratio of Studies for Fatal Bleeding



## Intracranial bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
16.3	16.8	-2.2	4.3	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.0383	-0.5899	-0.0324	0.4117	1.4954

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.33169	0.08114	-53.38	< 2e-16 ***
as.factor(arm)1	-0.74160	0.08522	-8.70	< 2e-16 ***
as.factor(id)2	0.36502	0.10523	3.47	0.000522 ***
as.factor(id)3	0.10006	0.11712	0.85	0.392905
as.factor(id)4	0.01690	0.11438	0.15	0.882515

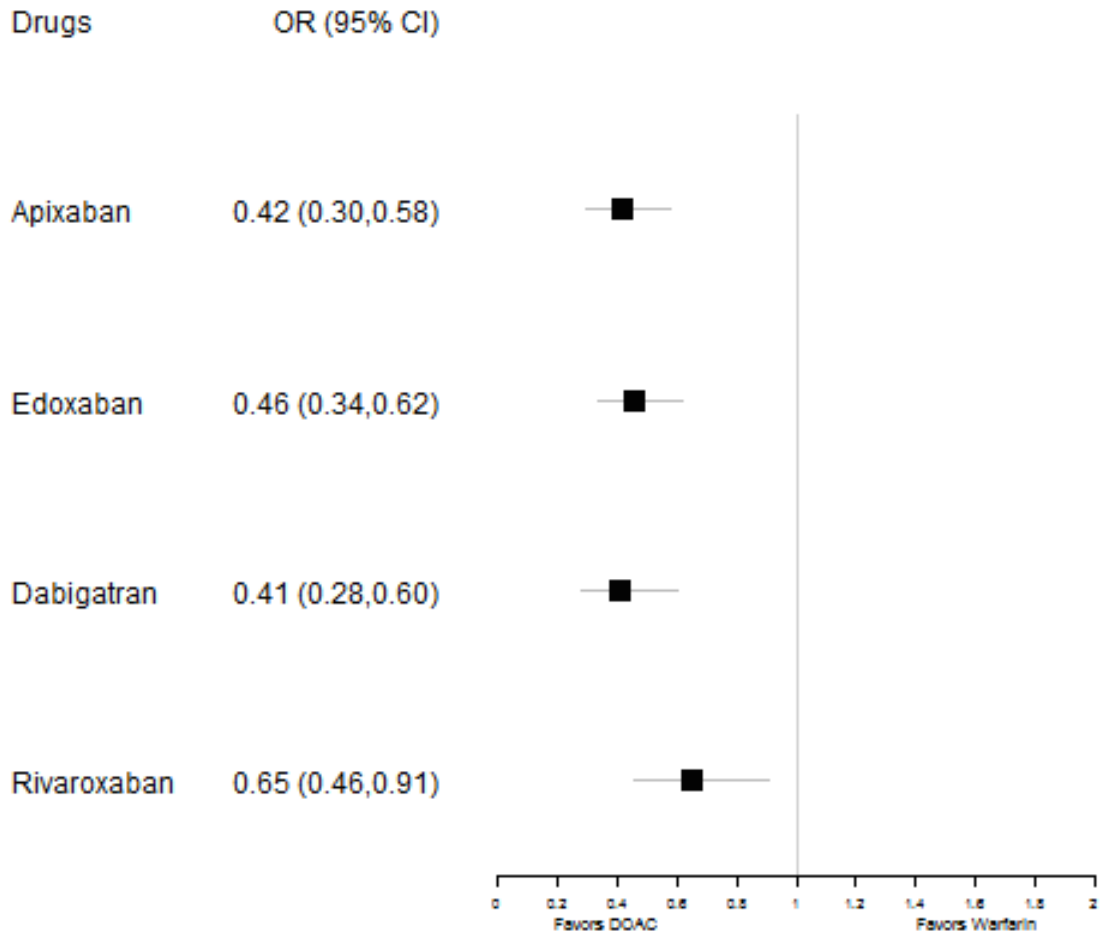
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.343			
as.fctr(d)2	-0.680	0.000		
as.fctr(d)3	-0.611	-0.001	0.471	
as.fctr(d)4	-0.626	0.001	0.483	0.434

### Odds Ratio of Studies for Intracranial Bleeding



## Gastrointestinal bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial (logit)

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
23.1	23.6	-5.6	11.1	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.01639	-0.49079	0.00631	0.42784	1.06326

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.0149	0.1221
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.41646	0.11807	-37.41	< 2e-16 ***
as.factor(arm)1	0.22908	0.08423	2.72	0.006535 **
as.factor(id)2	0.83015	0.12798	6.49	8.79e-11 ***
as.factor(id)3	0.61827	0.16332	3.79	0.000153 ***
as.factor(id)4	0.64286	0.15787	4.07	4.66e-05 ***

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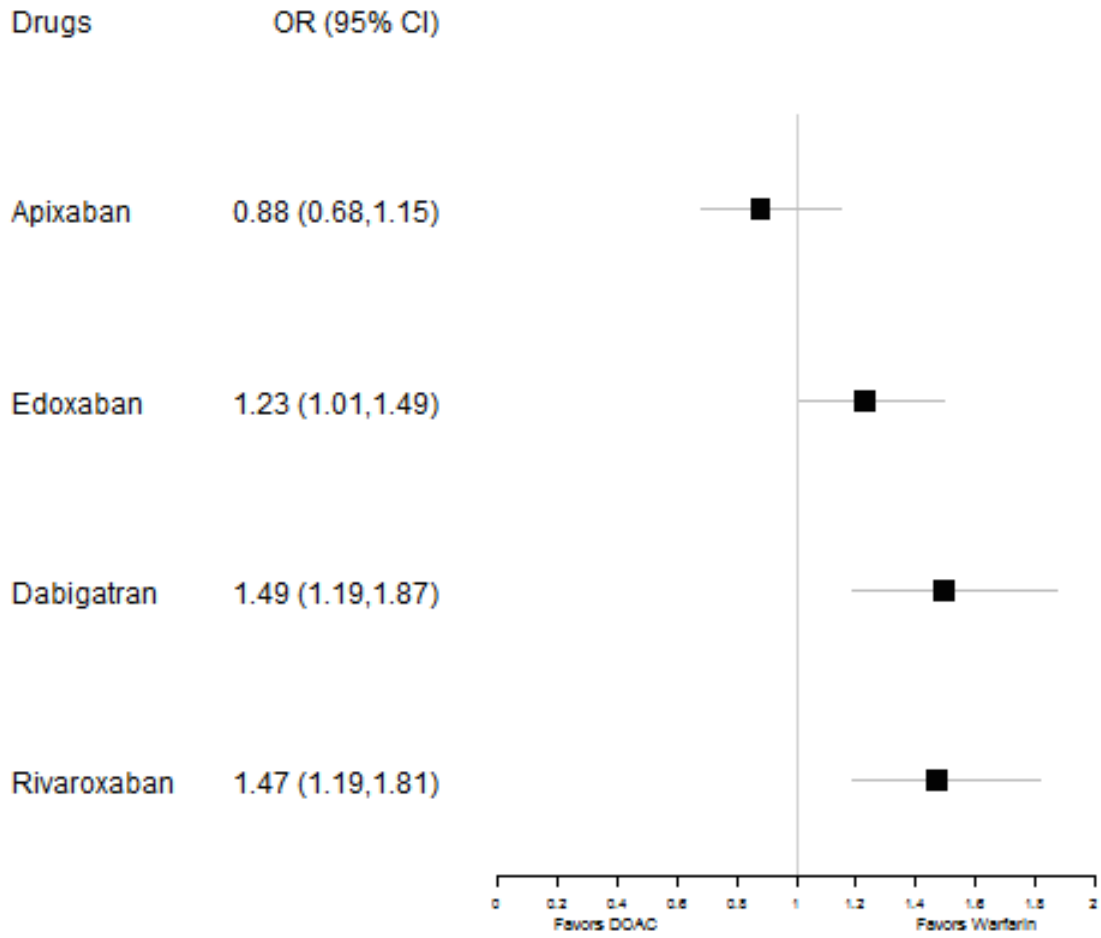
Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	
as.fctr(r)1	-0.304			
as.fctr(d)2	-0.850	0.129		
as.fctr(d)3	-0.856	0.118	0.742	
as.fctr(d)4	-0.871	0.132	0.753	0.797



### Odds Ratio of Studies for Gastrointestinal Bleeding



## Results of Meta-analyses: Venous thromboembolism

### Efficacy

#### Data Used

Trial	drug	Sample size	Recurrent VTE and Related Death (PO)	Death from Any Cause	Recurrent DVT	Fatal PE
AMPLIFY	Apixaban	2609	59	41	20	1
EINSTEIN DVT	Rivaroxaban	1731	36	38	14	1
Hokusai-VTE	Edoxaban	4118	130	132	57	4
RE-COVER	Dabigatran (RCI)	1274	30	21	16	
RECOVER II	Dabigatran (RCII)	1279	30	25	25	
AMPLIFY	Warfarin	2635	71	52	33	2
EINSTEIN DVT	Warfarin	1718	51	49	28	0.5
Hokusai-VTE	Warfarin	4122	146	126	63	3
RE-COVER	Warfarin	1265	27	21	18	
RECOVER II	Warfarin	1289	28	25	17	
Trial	drug	Recurrent PE (Non-Fatal)	Net Clinical Benefit	Myocardial Infarction	All death Sample size	Miss
AMPLIFY	Apixaban	27	73	4	2676	2609
EINSTEIN DVT	Rivaroxaban	20	51	5	1731	1731
Hokusai-VTE	Edoxaban	49	120		4118	4118
RE-COVER	Dabigatran (RCI)	13		4	1274	1274
RECOVER II	Dabigatran (RCII)	7		4	1279	1280
AMPLIFY	Warfarin	23	118	2	2689	2635
EINSTEIN DVT	Warfarin	18	73	1	1718	1718
Hokusai-VTE	Warfarin	59	144		4122	4122
RE-COVER	Warfarin	7		2	1265	1265
RECOVER II	Warfarin	13		2	1289	1288

## Recurrent VTE and related death

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
16.6	18.7	-1.3	2.6	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.7858	-0.4514	0.0014	0.4746	0.7425

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.61083	0.09681	-37.30	< 2e-16 ***
as.factor(arm)1	-0.12721	0.08244	-1.54	0.12284
as.factor(id)2	0.01838	0.14029	0.13	0.89579
as.factor(id)3	0.31024	0.10788	2.88	0.00403 **
as.factor(id)4	-0.10104	0.16074	-0.63	0.52963
as.factor(id)5	-0.09533	0.15978	-0.60	0.55074

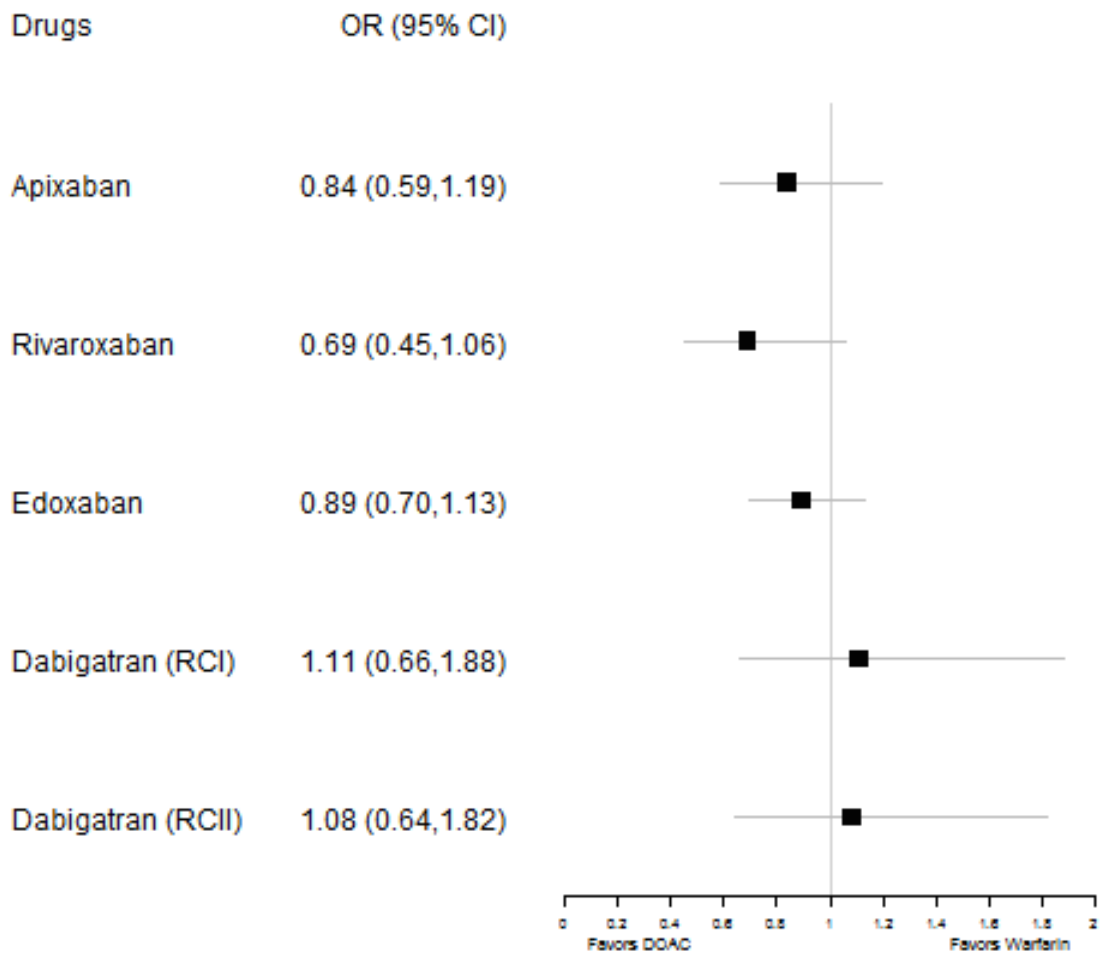
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()2	as.()3	as.()4
as.fctr(r)1	-0.398				
as.fctr(d)2	-0.580	-0.003			
as.fctr(d)3	-0.754	-0.002	0.521		
as.fctr(d)4	-0.506	-0.002	0.350	0.455	
as.fctr(d)5	-0.510	0.000	0.352	0.458	0.307

### Odds Ratio of Studies for Recurrent VTE and Related Death (PO)



## Death from any cause

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
16.5	18.6	-1.2	2.5	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.67762	-0.49102	0.00163	0.47825	0.66054

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.00724	0.11295	-35.48	< 2e-16 ***
as.factor(arm)1	-0.06172	0.08805	-0.70	0.483
as.factor(id)2	0.38338	0.15078	2.54	0.011 *
as.factor(id)3	0.60565	0.12225	4.95	7.25e-07 ***
as.factor(id)4	-0.04743	0.18749	-0.25	0.800
as.factor(id)5	0.11833	0.17703	0.67	0.504

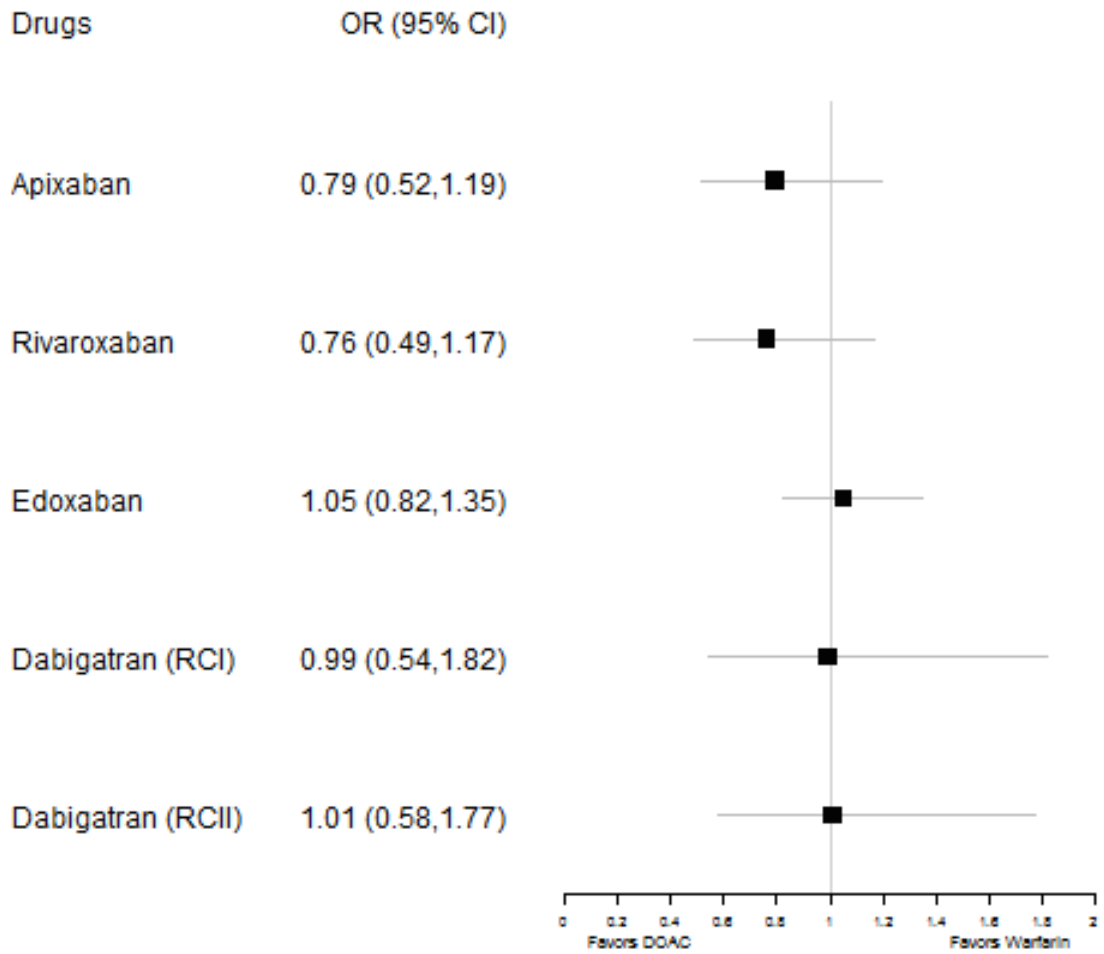
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.377				
as.fctr(d)2	-0.642	-0.002			
as.fctr(d)3	-0.792	-0.001	0.594		
as.fctr(d)4	-0.516	-0.001	0.387	0.477	
as.fctr(d)5	-0.547	0.000	0.410	0.506	0.330

### Odds Ratio of Studies for All Deaths



## Recurrent DVT

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
21.6	23.7	-3.8	7.6	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.26411	-0.68339	0.00542	0.63531	1.38932

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	2.463e-18	1.569e-09
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Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.4955	0.1481	-30.356	<2e-16 ***
as.factor(arm)1	-0.1872	0.1185	-1.579	0.1143
as.factor(id)2	0.1893	0.2078	0.911	0.3622
as.factor(id)3	0.3703	0.1659	2.232	0.0256 *
as.factor(id)4	0.2855	0.2211	1.292	0.1965
as.factor(id)5	0.4878	0.2080	2.345	0.0190 *

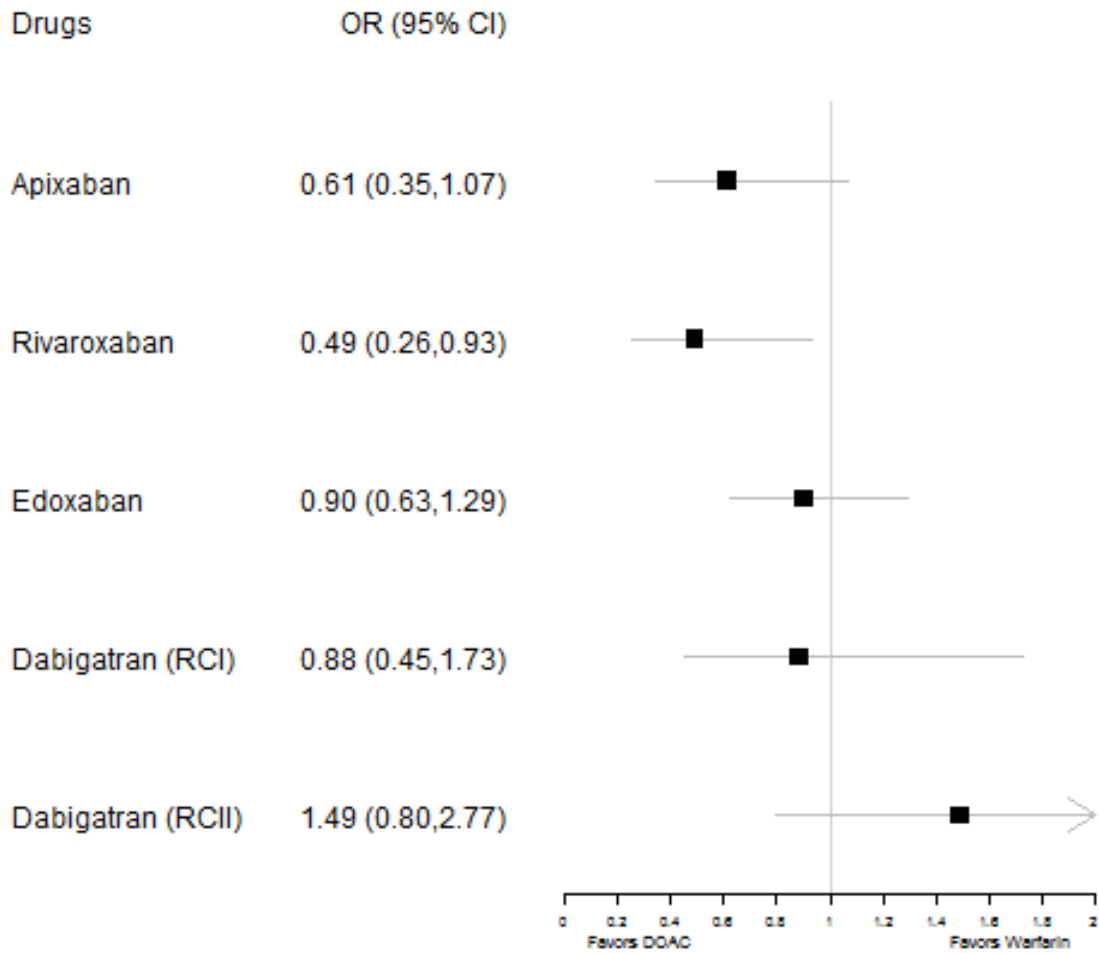
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.362				
as.fctr(d)2	-0.619	-0.003			
as.fctr(d)3	-0.775	-0.002	0.553		
as.fctr(d)4	-0.581	-0.002	0.415	0.520	
as.fctr(d)5	-0.619	-0.001	0.441	0.552	0.415

### Odds Ratio of Studies for Recurrent DVT





## Fatal PE

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
11.8	10.7	-0.9	1.8	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.67240	-0.39577	-0.00441	0.42745	0.61069

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-7.5620	0.6648	-11.375	<2e-16 ***
as.factor(arm)1	0.1851	0.6057	0.306	0.760
as.factor(id)2	-0.6807	1.1549	-0.589	0.556
as.factor(id)3	0.3952	0.6903	0.573	0.567

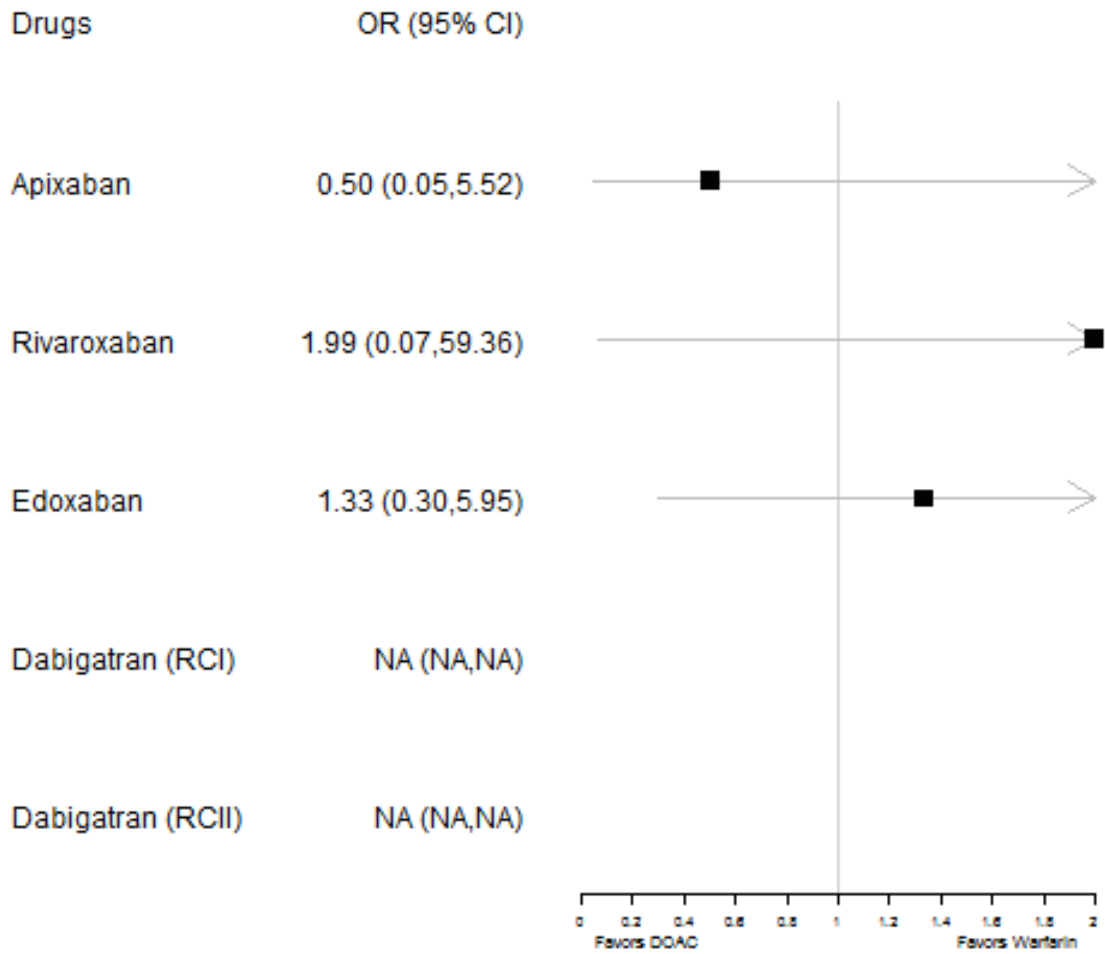
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()2
as.fctr(r)1	-0.495		
as.fctr(d)2	-0.433	-0.002	
as.fctr(d)3	-0.726	-0.002	0.418

### Odds Ratio of Studies for Fatal PE



## Recurrent PE (non-fatal)

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
18.9	21.0	-2.5	4.9	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.98675	-0.55035	0.00176	0.54609	0.99930

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-4.62701	0.15588	-29.682	<2e-16 ***
as.factor(arm)1	-0.03288	0.13094	-0.251	0.8017
as.factor(id)2	0.14621	0.21634	0.676	0.4992
as.factor(id)3	0.32188	0.17197	1.872	0.0613 .
as.factor(id)4	-0.19251	0.26569	-0.725	0.4687
as.factor(id)5	-0.20408	0.26568	-0.768	0.4424

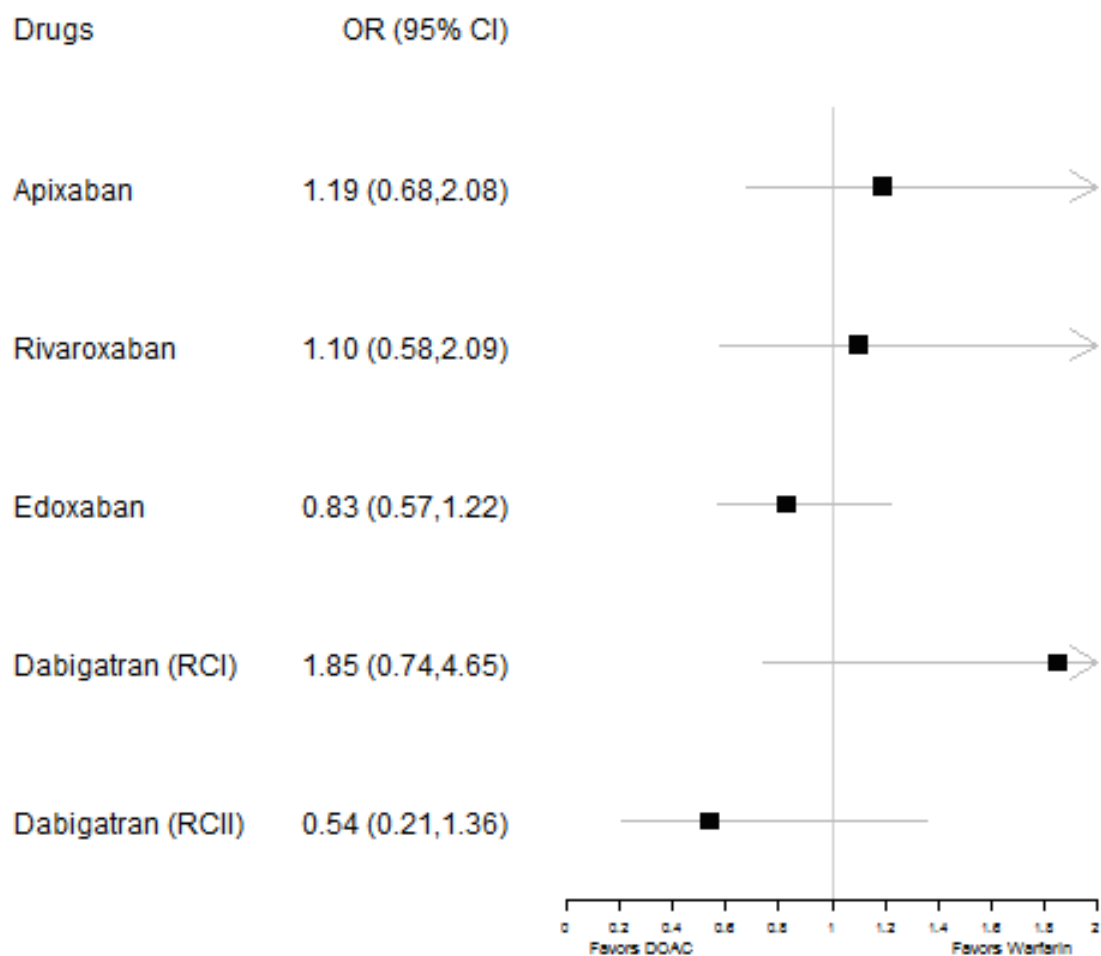
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.411				
as.fctr(d)2	-0.598	-0.003			
as.fctr(d)3	-0.753	-0.002	0.543		
as.fctr(d)4	-0.487	-0.002	0.351	0.442	
as.fctr(d)5	-0.487	0.000	0.351	0.442	0.286

### Odds Ratio of Studies for Recurrent PE (Non Fatal)



## Net clinical benefit

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
12.4	11.4	-1.2	2.4	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.81205	-0.59411	-0.01502	0.56822	0.83814

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
----	-----	---	---

Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.12556	0.08214	-38.05	< 2e-16 ***
as.factor(arm)1	-0.32596	0.08561	-3.81	0.00014 ***
as.factor(id)2	-0.01208	0.11752	-0.10	0.91813
as.factor(id)3	-0.13217	0.09672	-1.37	0.17178

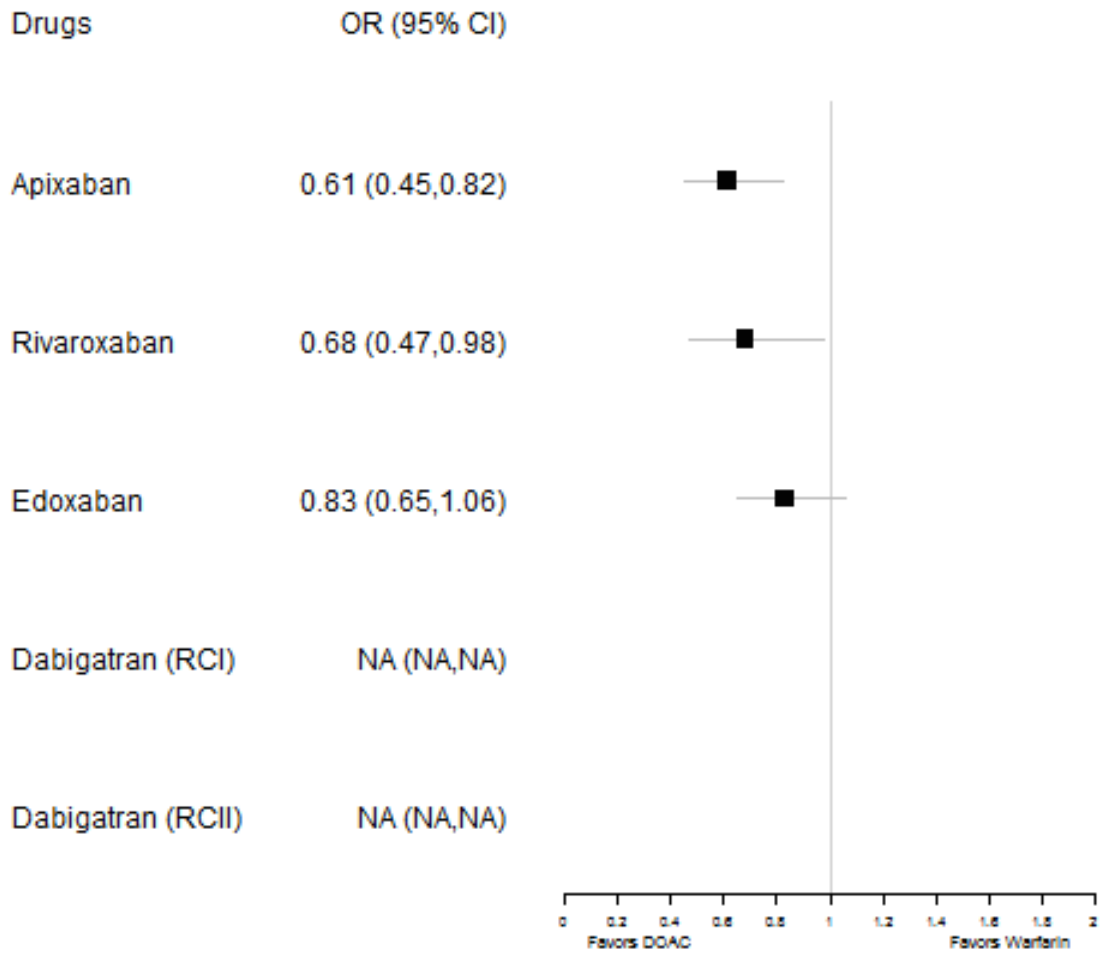
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()2
as.fctr(r)1	-0.440		
as.fctr(d)2	-0.562	-0.003	
as.fctr(d)3	-0.684	-0.001	0.478

### Odds Ratio of Studies for Net Clinical Benefit



## Myocardial infarction

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
12.6	13.1	-0.3	0.6	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.56129	-0.11978	0.03198	0.18622	0.35898

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-7.3101	0.5174	-14.130	<2e-16 ***
as.factor(arm)1	0.8893	0.4494	1.979	0.0479 *
as.factor(id)2	0.4161	0.5778	0.720	0.4715
as.factor(id)4	0.7232	0.5779	1.251	0.2108
as.factor(id)5	0.7146	0.5779	1.236	0.2163

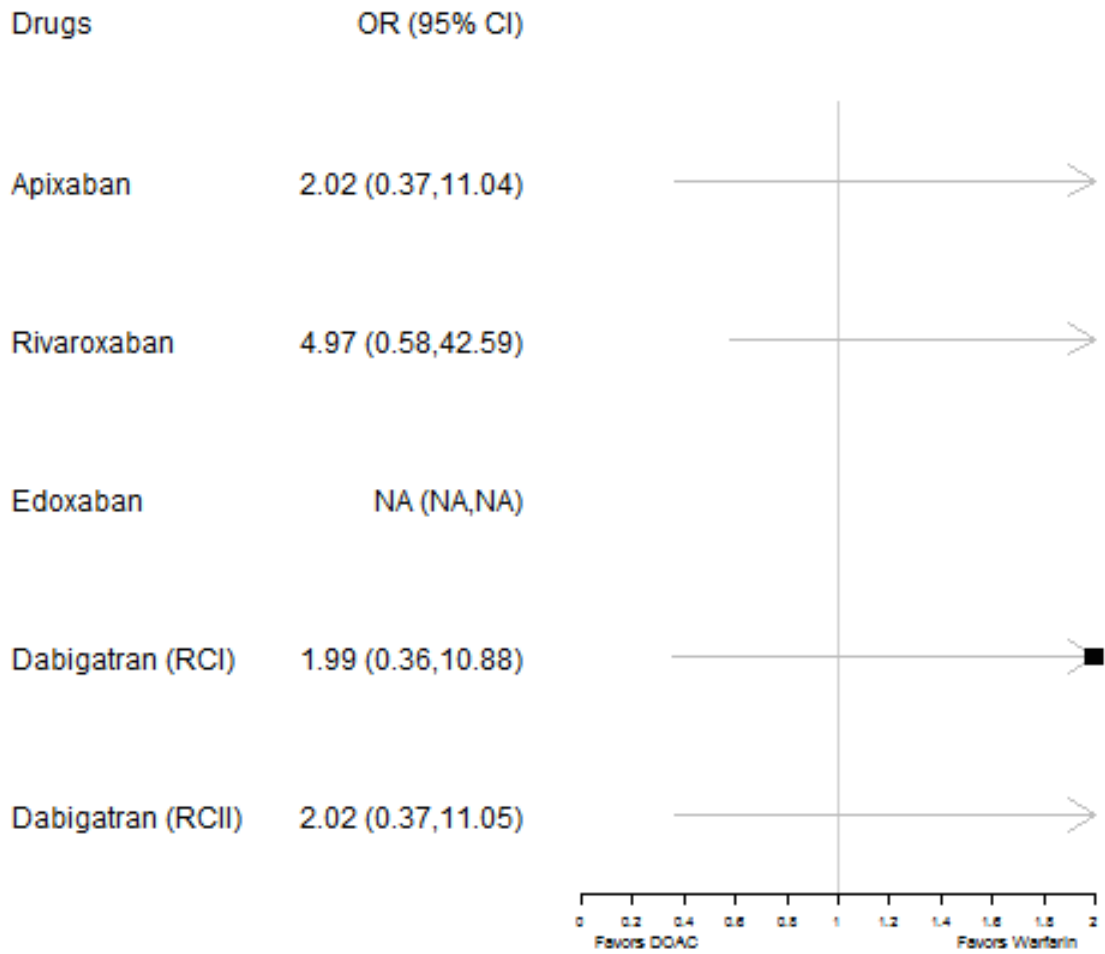
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()4	
as.fctr(r)1	-0.614			
as.fctr(d)2	-0.557	-0.003		
as.fctr(d)4	-0.557	-0.002	0.500	
as.fctr(d)5	-0.558	0.000	0.500	0.500

### Odds Ratio of Studies for Myocardial Infarction





# Safety

## Data Used

STUDY	Drug	Sample Size	All-cause Mortality	Major Bleeding	Fatal Bleeding	Intracranial Bleeding	Gastrointestinal Bleeding
RE-COVER	Dabigatran (RCI)	1273	21	20	1	0	53
RE-COVER2	Dabigatran (RCII)	1280	25	15	0	2	48
EINSTEIN-DVT	Rivaroxaban	1718	38	14	1		
AMPLIFY	Apixaban	2676	41	15	1	3	7
Hokusai-VTE	Edoxaban	4118	132	56	2	5	
RE-COVER	Warfarin	1266	21	24	1	3	35
RE-COVER2	Warfarin	1288	25	22	1	2	33
EINSTEIN-DVT	Enoxaparin, Warfarin/acenocoumarol	1711	49	20	5		
AMPLIFY	Enoxaparin, Warfarin	2689	52	49	2	6	18
Hokusai-VTE	LMWH Warfarin	4122	126	66	10	18	
STUDY	Drug	ALT greater than 3xULN	Non-major Relevant Bleeding	Serious Adverse Event	Medication Stopped (ADE)	All-cause Mortality Denominator	ALT greater than 3xULN Denominator
RE-COVER	Dabigatran (RCI)	42		165	126	1273	1220
RE-COVER2	Dabigatran (RCII)			156	102	1280	
EINSTEIN-DVT	Rivaroxaban	25	126	201	85	1718	1680
AMPLIFY	Apixaban	50	103	417	150	2676	2601
Hokusai-VTE	Edoxaban	81	298	503	41	4118	3901
RE-COVER	Warfarin	46		150	102	1266	1199
RE-COVER2	Warfarin			153	101	1288	
EINSTEIN-DVT	Enoxaparin, Warfarin/acenocoumarol	62	119	233	81	1711	1649
AMPLIFY	Enoxaparin, Warfarin	145	215	410	182	2689	2598
Hokusai-VTE	LMWH Warfarin	90	368	544	51	4122	3903

## Major bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
23.4	25.5	-4.7	9.4	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.31368	-0.29020	0.02406	0.37533	0.94190

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.04453	0.211
----	-----	---------	-------

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.8733	0.1771	-21.867	< 2e-16 ***
as.factor(arm)1	-0.4505	0.1591	-2.832	0.00463 **
as.factor(id)2	-0.1633	0.2485	-0.657	0.51101
as.factor(id)3	-0.5424	0.2532	-2.142	0.03217 *
as.factor(id)4	-0.2491	0.2511	-0.992	0.32126
as.factor(id)5	-0.1916	0.2017	-0.950	0.34199

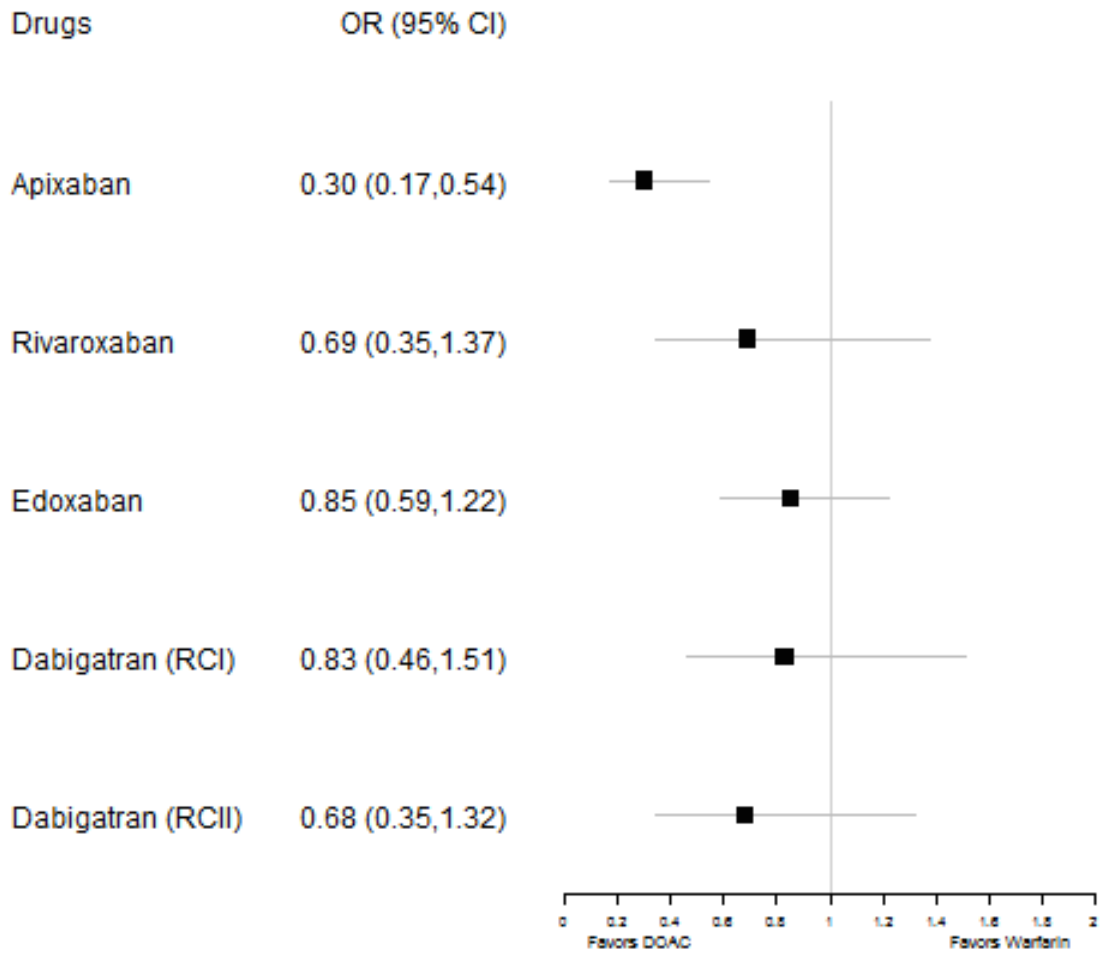
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.216				
as.fctr(d)2	-0.665	-0.021			
as.fctr(d)3	-0.650	-0.024	0.463		
as.fctr(d)4	-0.740	-0.035	0.512	0.498	
as.fctr(d)5	-0.804	0.083	0.560	0.550	0.536

### Odds Ratio of Studies for Major Bleeding



## Fatal bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
15.4	17.5	-0.7	1.4	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.44158	-0.28097	0.00517	0.27078	0.81836

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-6.7046	0.7158	-9.366	<2e-16 ***
as.factor(arm)1	-1.2411	0.4844	-2.562	0.0104 *
as.factor(id)2	-0.3025	1.0806	-0.280	0.7795
as.factor(id)3	0.7990	0.8170	0.978	0.3281
as.factor(id)4	-0.3458	0.9132	-0.379	0.7049
as.factor(id)5	0.6136	0.7642	0.803	0.4220

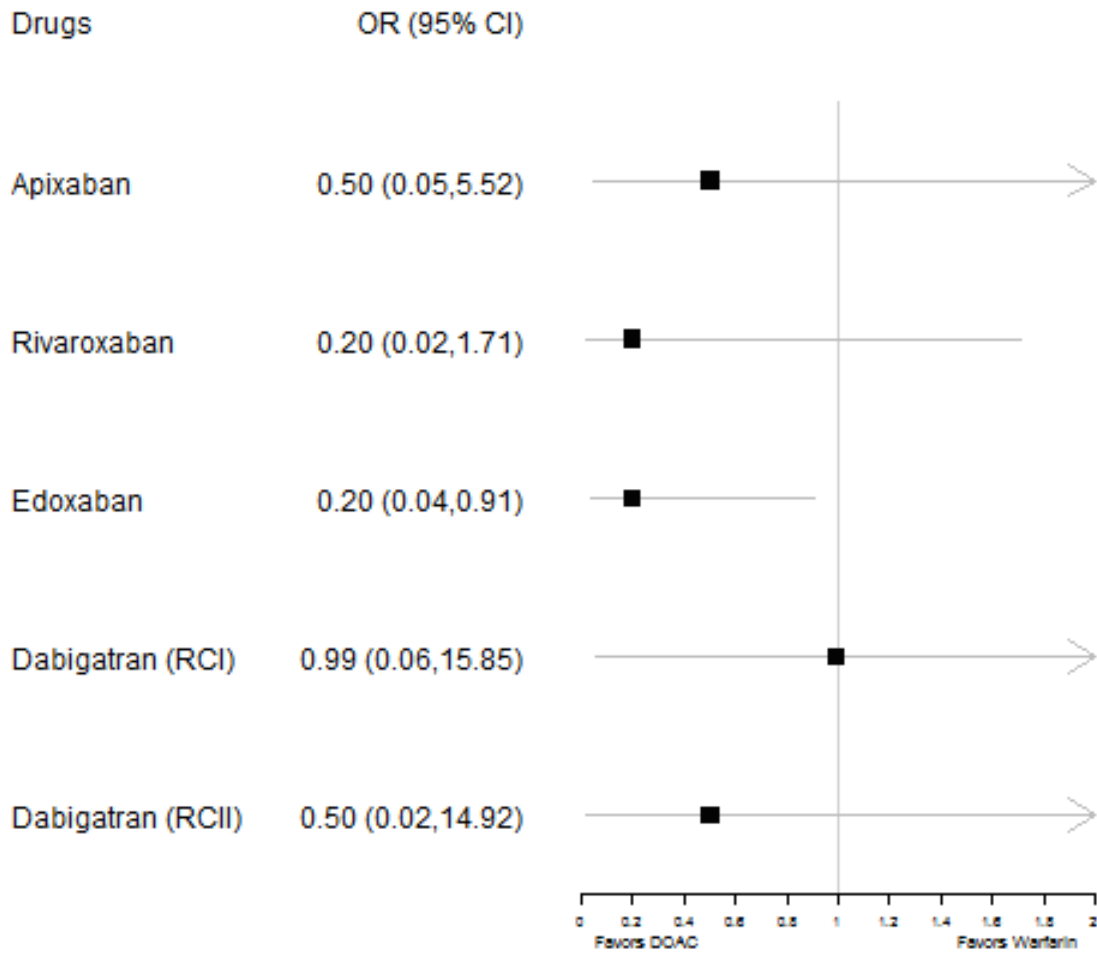
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.153				
as.fctr(d)2	-0.647	0.001			
as.fctr(d)3	-0.856	0.000	0.567		
as.fctr(d)4	-0.766	0.001	0.507	0.671	
as.fctr(d)5	-0.915	0.001	0.606	0.802	0.717

### Odds Ratio of Studies for Fatal Bleeding



## Intracranial bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
13.8	14.3	-0.9	1.8	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.54918	-0.45066	0.01637	0.30424	0.91436

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0	0
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Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-6.1996	0.5436	-11.405	< 2e-16 ***
as.factor(arm)1	-1.0163	0.3605	-2.819	0.00482 **
as.factor(id)2	0.1196	0.7326	0.163	0.87027
as.factor(id)4	0.1943	0.6305	0.308	0.75799
as.factor(id)5	0.7057	0.5743	1.229	0.21914

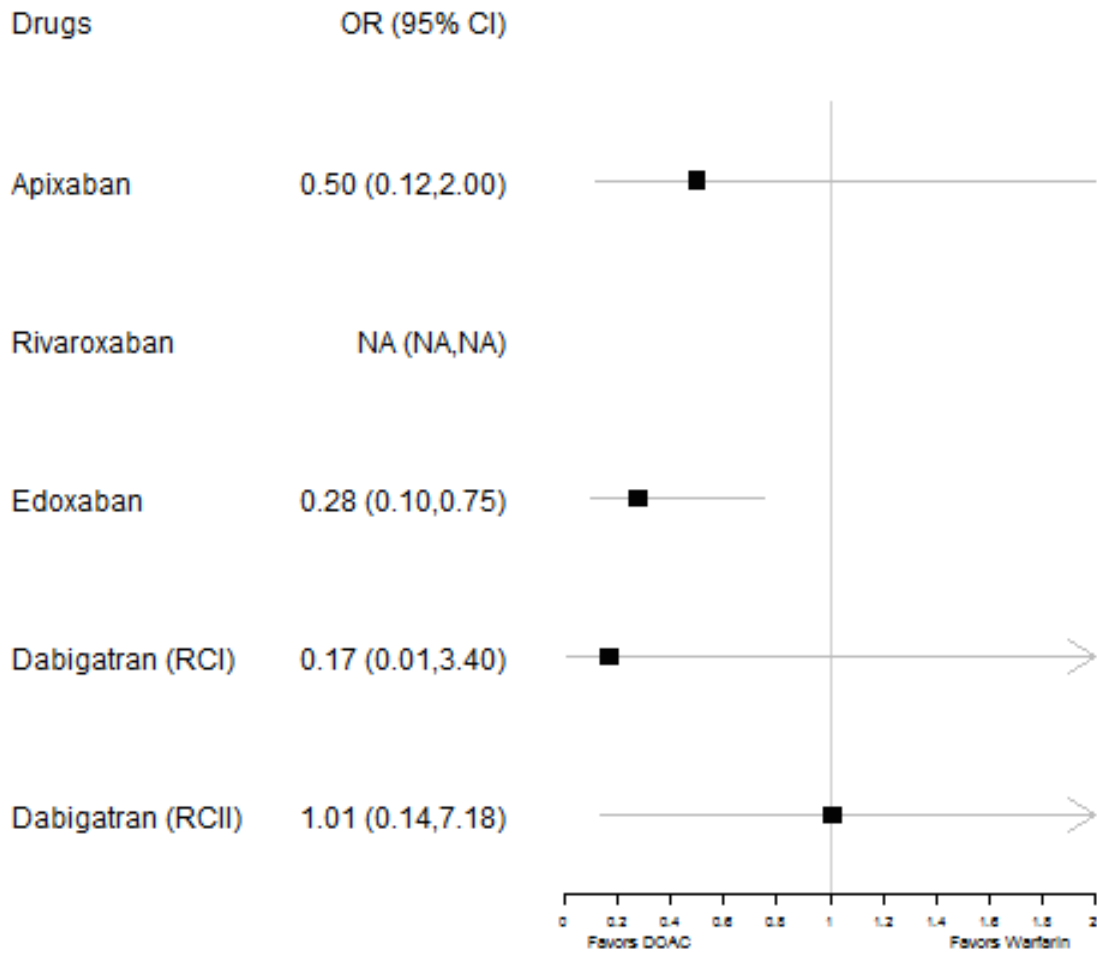
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()4	
as.fctr(r)1	-0.177			
as.fctr(d)2	-0.719	0.001		
as.fctr(d)4	-0.835	0.001	0.620	
as.fctr(d)5	-0.917	0.000	0.680	0.790

### Odds Ratio of Studies for Intracranial Bleeding



## ALT > 3xULN

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
24.8	25.3	-6.4	12.8	2

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.37833	-0.31366	-0.01216	0.24833	0.34724

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.1674	0.4092
----	-----	--------	--------

Number of obs: 8, groups: id, 4

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.17499	0.14458	-21.961	< 2e-16 ***
as.factor(arm)1	-0.57433	0.22651	-2.536	0.01123 *
as.factor(id)3	-0.09717	0.19455	-0.499	0.61743
as.factor(id)4	0.32629	0.16995	1.920	0.05487 .
as.factor(id)5	-0.54432	0.17355	-3.136	0.00171 **

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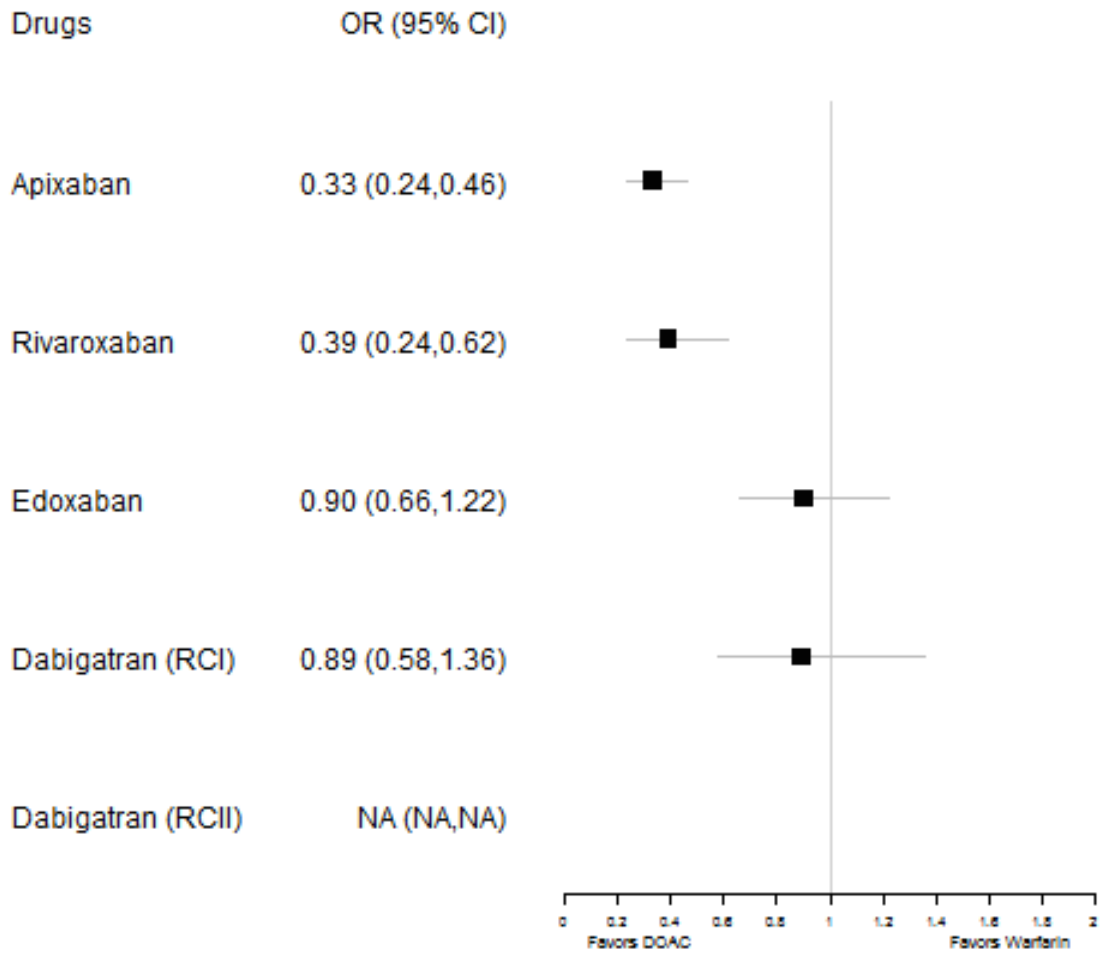
Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()3	as.()4	
as.fctr(r)1	-0.155			
as.fctr(d)3	-0.750	0.024		
as.fctr(d)4	-0.861	0.079	0.659	
as.fctr(d)5	-0.797	0.055	0.593	0.681



### Odds Ratio of Studies for ALT > 3xULN



## Gastrointestinal bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
19.3	18.2	-4.6	9.3	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.01435	-0.29156	-0.01378	0.25732	0.88046

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.1361	0.3689
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Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-3.50915	0.16817	-20.867	< 2e-16 ***
as.factor(arm)1	0.08666	0.30441	0.285	0.776
as.factor(id)2	-0.08124	0.22098	-0.368	0.713
as.factor(id)4	-1.69853	0.40471	-4.197	2.71e-05 ***

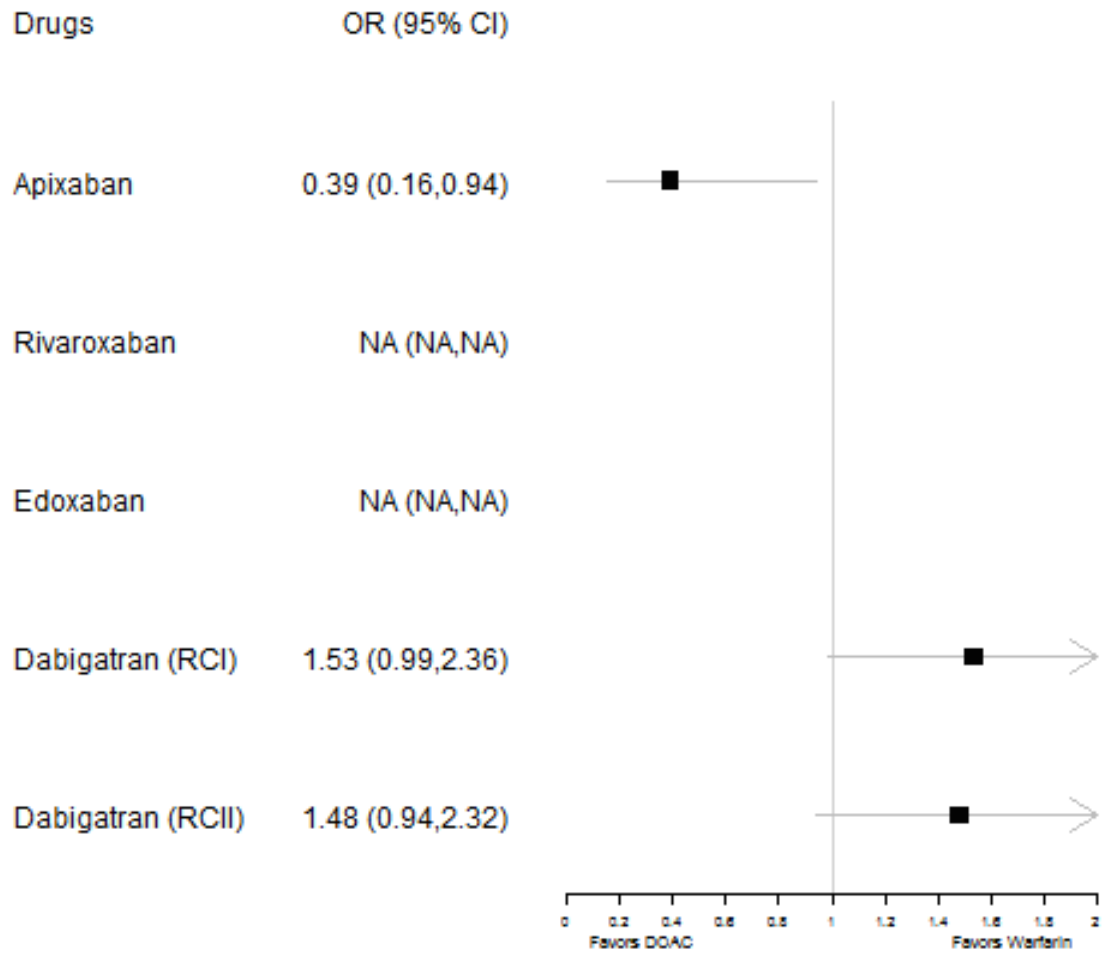
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()2
as.fctr(r)1		-0.058	
as.fctr(d)2	-0.647		-0.021
as.fctr(d)4	-0.569	-0.392	0.288

### Odds Ratio of Studies for Gastrointestinal Bleeding



## Non-major relevant bleeding

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
21.4	20.3	-5.7	11.4	1

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.41013	-0.24558	0.00297	0.23940	0.31422

Random effects:

Groups	Name	Variance	Std.Dev.
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id	arm	0.09464	0.3076
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Number of obs: 6, groups: id, 3

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-2.56402	0.09429	-27.193	<2e-16 ***
as.factor(arm)1	-0.31886	0.18927	-1.685	0.092 .
as.factor(id)4	0.09965	0.12153	0.820	0.412
as.factor(id)5	0.24415	0.10743	2.273	0.023 *

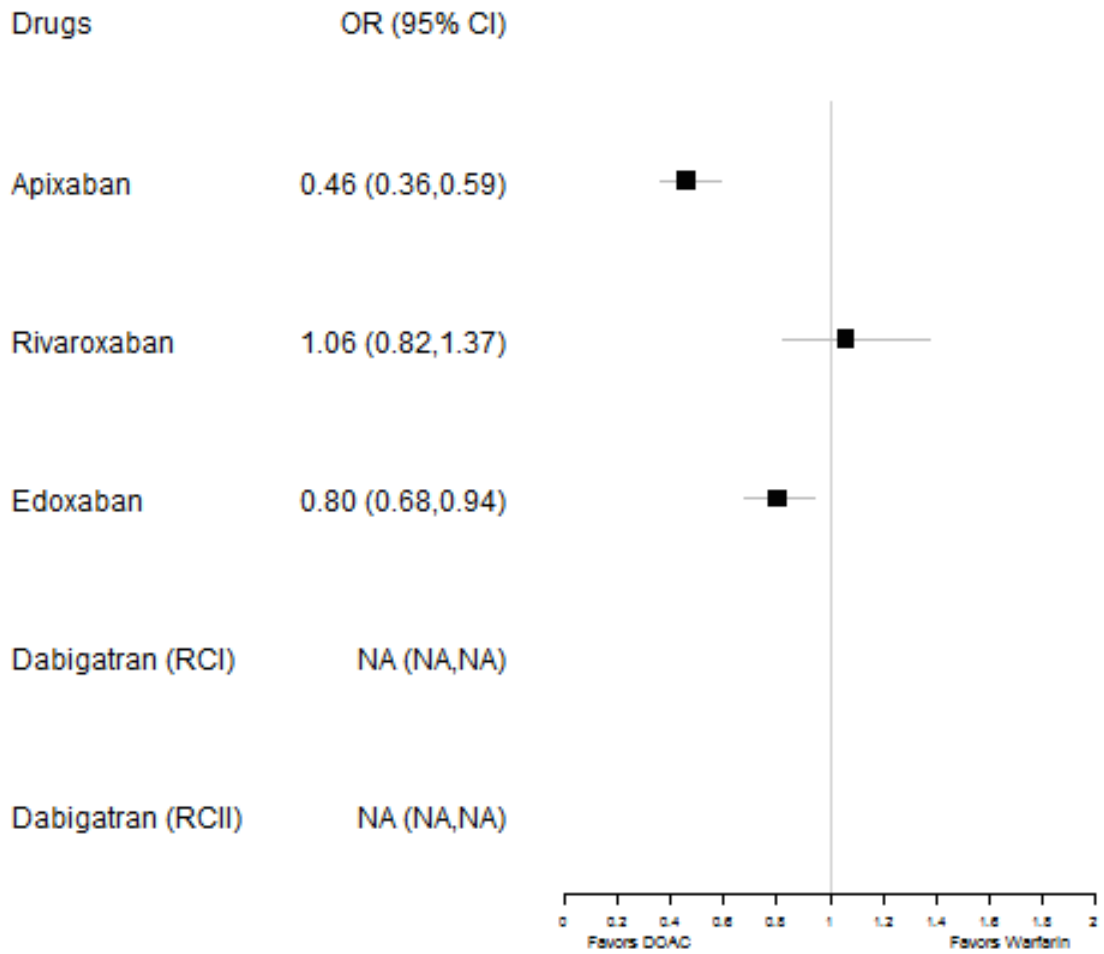
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

	(Intr)	as.()1	as.()4
as.fctr(r)1	-0.157		
as.fctr(d)4	-0.801	0.049	
as.fctr(d)5	-0.864	0.086	0.693

### Odds Ratio of Studies for Non-major Relevent Bleeding



## Serious adverse event

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
18.7	20.8	-2.4	4.7	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-0.94906	-0.57324	0.00324	0.57783	0.93815

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-1.93634	0.06332	-30.580	< 2e-16 ***
as.factor(arm)1	-0.03644	0.03969	-0.918	0.358519
as.factor(id)2	-0.03495	0.08546	-0.409	0.682529
as.factor(id)3	0.02282	0.07914	0.288	0.773041
as.factor(id)4	0.25197	0.07109	3.544	0.000394 ***
as.factor(id)5	0.02725	0.06869	0.397	0.691562

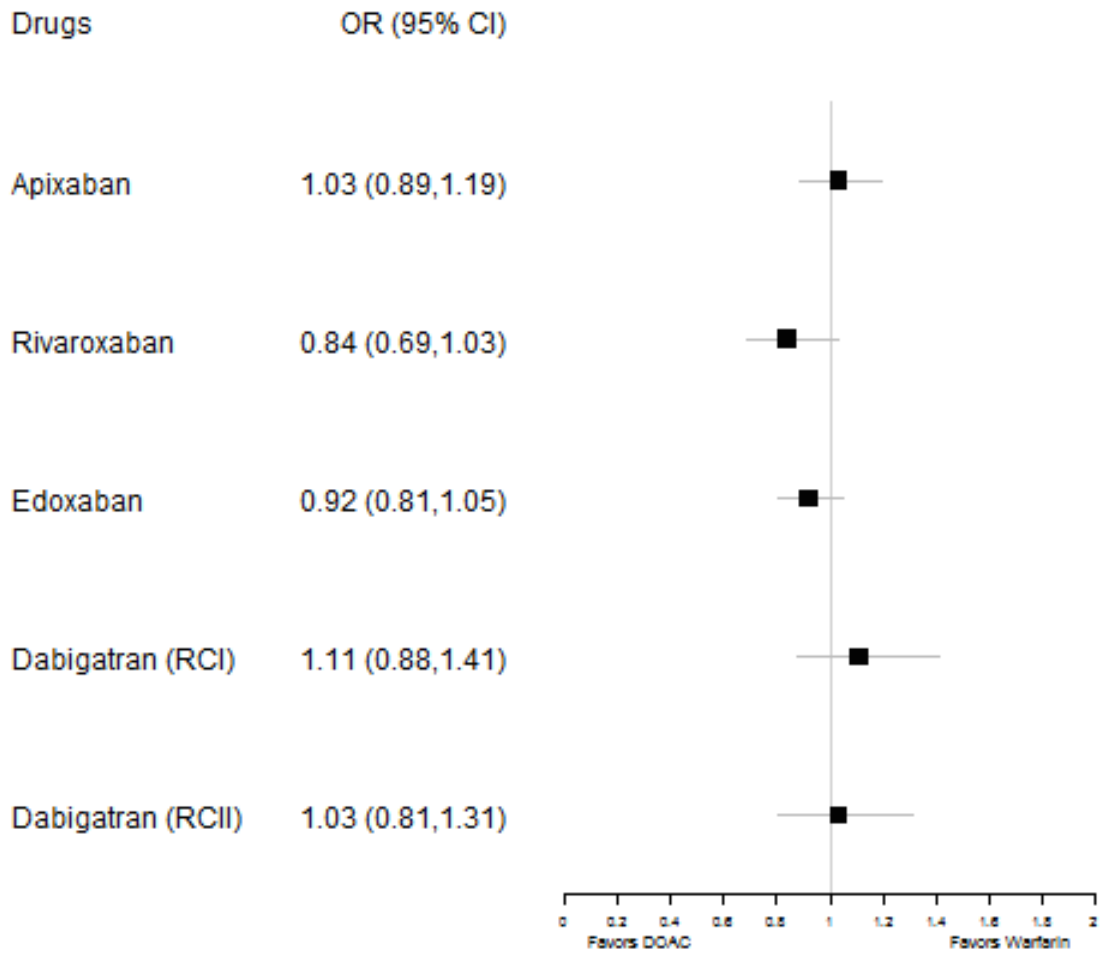
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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.310				
as.fctr(d)2	-0.670	0.001			
as.fctr(d)3	-0.723	0.000	0.536		
as.fctr(d)4	-0.805	0.001	0.597	0.644	
as.fctr(d)5	-0.834	0.001	0.617	0.667	0.742

### Odds Ratio of Studies for Serious Adverse Event



## Medication stopped (ADE)

Generalized linear mixed model fit by maximum likelihood (Adaptive Gauss-Hermite Quadrature, nAGQ = 7) ['glmerMod']

Family: binomial ( logit )

Formula: cbind(ADEs[, i], nADEs[, i]) ~ as.factor(arm) + as.factor(id) + (-1 + arm | id)

AIC	BIC	logLik	deviance	df.resid
20.8	22.9	-3.4	6.8	3

Scaled residuals:

Min	1Q	Median	3Q	Max
-1.27533	-0.57082	0.00149	0.56514	1.28553

Random effects:

Groups Name Variance Std.Dev.

id arm 0 0

Number of obs: 10, groups: id, 5

Fixed effects:

	Estimate	Std. Error	z value	Pr(> z )
(Intercept)	-2.30305	0.07648	-30.112	< 2e-16 ***
as.factor(arm)1	-0.02615	0.06473	-0.404	0.686
as.factor(id)2	-0.13932	0.10084	-1.382	0.167
as.factor(id)3	-0.66234	0.10559	-6.273	3.55e-10 ***
as.factor(id)4	-0.40262	0.08961	-4.493	7.02e-06 ***
as.factor(id)5	-2.16771	0.12574	-17.239	< 2e-16 ***

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Signif. codes: 0 '\*\*\*' 0.001 '\*\*' 0.01 '\*' 0.05 '.' 0.1 ' ' 1

Correlation of Fixed Effects:

(Intr)	as.()1	as.()2	as.()3	as.()4	
as.fctr(r)1	-0.420				
as.fctr(d)2	-0.626	0.002			
as.fctr(d)3	-0.597	0.001	0.453		
as.fctr(d)4	-0.704	0.002	0.533	0.509	
as.fctr(d)5	-0.502	0.001	0.380	0.363	0.428



### Odds Ratio of Studies for Medication Stopped (ADE)

