Section and Topic	Item	Checklist item	Location
	#		where item
			is reported
TITLE			
Title	1	Identify the report as a systematic review.	Page 1
ABSTRACT			
Abstract	2	See the PRISMA 2020 for Abstracts checklist.	Page 2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of existing knowledge.	Page 4
Objectives	4	Provide an explicit statement of the objective(s) or question(s) the review addresses.	Page 4, 5
METHODS			
Eligibility criteria	5	Specify the inclusion and exclusion criteria for the review and how studies were grouped for the syntheses.	Page 5, 6
Information	6	Specify all databases, registers, websites, organisations, reference lists and other sources searched or consulted to identify	Page
sources		studies. Specify the date when each source was last searched or consulted.	5
Search strategy	7	Present the full search strategies for all databases, registers and websites, including any filters and limits used.	Page 5
Selection process	8	Specify the methods used to decide whether a study met the inclusion criteria of the review, including how many reviewers	Page 6, 7
		screened each record and each report retrieved, whether they worked independently, and if applicable, details of automation	
		tools used in the process.	
Data collection	9	Specify the methods used to collect data from reports, including how many reviewers collected data from each report,	Page 6,
process		whether they worked independently, any processes for obtaining or confirming data from study investigators, and if	7
1		applicable, details of automation tools used in the process.	
Data items	10a	List and define all outcomes for which data were sought. Specify whether all results that were compatible with each outcome	Page 6, 7
		domain in each study were sought (e.g. for all measures, time points, analyses), and if not, the methods used to decide which	
		results to collect.	

#### Supplemental Table 1 PRISMA 2020 Checklist

Section and Topic	Item #	Checklist item	Location where item is reported		
Data items	10b	List and define all other variables for which data were sought (e.g. participant and intervention characteristics, funding sources). Describe any assumptions made about any missing or unclear information.	Page 6, 7		
Study risk of bias assessment	11	Specify the methods used to assess risk of bias in the included studies, including details of the tool(s) used, how many reviewers assessed each study and whether they worked independently, and if applicable, details of automation tools used in the process.			
Effect measures	12	Specify for each outcome the effect measure(s) (e.g. risk ratio, mean difference) used in the synthesis or presentation of results.	Page 7		
Synthesi s	13a	Describe the processes used to decide which studies were eligible for each synthesis (e.g. tabulating the study intervention characteristics and comparing against the planned groups for each synthesis (item #5)).			
methods	13b	Describe any methods required to prepare the data for presentation or synthesis, such as handling of missing summary statistics, or data conversions.	Page 7, 8		
	13c	Describe any methods used to tabulate or visually display results of individual studies and syntheses.	Page 7, 8		
	13d	Describe any methods used to synthesize results and provide a rationale for the choice(s). If meta-analysis was performed, describe the model(s), method(s) to identify the presence and extent of statistical heterogeneity, and software package(s) used.	Page 7, 8		
	13e	Describe any methods used to explore possible causes of heterogeneity among study results (e.g. subgroup analysis, meta-regression).	Page 7, 8		
	13f	Describe any sensitivity analyses conducted to assess robustness of the synthesized results.	Page 7, 8		
Reporting bias assessment	14	Describe any methods used to assess risk of bias due to missing results in a synthesis (arising from reporting biases).			

Section and Topic	Item #	Checklist item	Location where item is reported
Certainty assessment	15	Describe any methods used to assess certainty (or confidence) in the body of evidence for an outcome.	Page 7, 8
RESULTS			
Study selection	16a	Describe the results of the search and selection process, from the number of records identified in the search to the number of studies included in the review, ideally using a flow diagram.	Page 8
	16b	Cite studies that might appear to meet the inclusion criteria, but which were excluded, and explain why they were excluded.	Page 8
Study characteristic s	17	Cite each included study and present its characteristics.	Page 8, 9
Risk of bias in studies	18	Present assessments of risk of bias for each included study.	Page 9
Results of individual studies	19	For all outcomes, present, for each study: (a) summary statistics for each group (where appropriate) and (b) an effect estimate and its precision (e.g. confidence/credible interval), ideally using structured tables or plots.	
Results	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	Page 9, 10
of syntheses	20b	Present results of all statistical syntheses conducted. If meta-analysis was done, present for each the summary estimate and its precision (e.g. confidence/credible interval) and measures of statistical heterogeneity. If comparing groups, describe the direction of the effect.	Page 9, 10
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	Page 9, 10
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	Page 9, 10

Section and Topic	Item #	Checklist item	Location where item is reported		
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	Page 10		
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.			
DISCUSSION					
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	Page 10-13		
	23b	Discuss any limitations of the evidence included in the review.	Page 13		
	23c	Discuss any limitations of the review processes used.	Page 13		
	23d	Discuss implications of the results for practice, policy, and future research.			
OTHER INFORM	ATION				
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	Page 5		
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	Page 5		
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	Page 5		
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	Page 14		
Competin g interests	26	Declare any competing interests of review authors.	Page 14		
Availability of data, code and other materials	27	Report which of the following are publicly available and where they can be found: template data collection forms; data extracted from included studies; data used for all analyses; analytic code; any other materials used in the review.			

*From:* Page MJ, McKenzie JE, Bossuyt PM, Boutron I, Hoffmann TC, Mulrow CD, et al. The PRISMA 2020 statement: an updated guideline for reporting systematic reviews. BMJ 2021;372:n71. doi: 10.1136/bmj.n71 For more information, visit: <u>http://www.prisma-statement.org/</u>

	Search terms	Items
PubM	Ied	
#1	"atrial fibrillation" OR "atrial flutter"	100,096
#2	"intracranial hemorrhage" OR "intracranial bleeding" OR "intracerebral	36,958
	hemorrhage" OR "hemorrhagic stroke" OR "ICH"	
#3	"oral anticoagulant" OR "vitamin K antagonist" OR "VKA" OR 'warfarin'	39,974
	OR "non-vitamin K antagonist oral anticoagulant" OR "direct oral	
	anticoagulant" OR "novel oral anticoagulant" OR "NOAC" OR "DOAC"	
	OR "dabigatran" OR "rivaroxaban" OR "apixaban" OR "edoxaban"	
#4	#1 AND #2 AND #3	1,131
Emba	se	
#1	'atrial fibrillation' OR 'atrial flutter'	209,086
#2	'intracranial hemorrhage' OR 'intracranial bleeding' OR 'intracerebral	63,895
	hemorrhage' OR 'hemorrhagic stroke' OR 'ICH'	
#3	'oral anticoagulant' OR 'vitamin K antagonist' OR 'VKA' OR 'warfarin' OR	154,129
	'non-vitamin K antagonist oral anticoagulant' OR 'direct oral anticoagulant'	
	OR 'novel oral anticoagulant' OR 'NOAC' OR 'DOAC' OR 'dabigatran' OR	
	'rivaroxaban' OR 'apixaban' OR 'edoxaban'	
#4	#1 AND #2 AND #3	2,659

# Supplemental Table 3. Excluding studies with reasons in this meta-analysis

atients with atrial
atients with atrial
atients with atrial
orrhage in anticoagulated
arin-associated
rebral hemorrhage.
and recurrent bleeding
5(3):268-274.
iessenauer C, Zand R.
ologicalSci. 2020:100222.
Giralt Steinhauer E,
ootics on outcome in
s versus warfarin in
nticoagulant Treatment
ial hemorrhage and
dy. CAN J CARDIOL.

2012;28(1):33-39.

- 6 Majeed A, Kim Y, Roberts RS, Holmstro<sup>°</sup> m M, Schulman S. Optimal Timing of Resumption of Warfarin After Intracranial Hemorrhage. STROKE. 2010;41(12):2860-2866.
- NO.3 Studies focused on a mixed population, and AF subgroup was not separately analyzed (n=3)
- Poli D, Antonucci E, Vignini E, Martinese L, Testa S, Simioni P, Pengo V, Pignatelli P, Falanga A, Masciocco L, Barcellona D, Ciampa A, Chiarugi P, Paparo C, Ageno W, Palareti G. Anticoagulation resumption after intracranial hemorrhage in patients treated with VKA and DOACs. EUR J INTERN MED. 2020;80:73-77.
- 2 Billings JD, Khan AD, McVicker JH, Schroeppel TJ. Newer and Better? Comparing Direct Oral Anticoagulants to Warfarin in Patients With Traumatic Intracranial Hemorrhage. Am Surg. 2020;86(9):1062-1066.
- 3 Ottosen TP, Grijota M, Hansen ML, Brandes A, Damgaard D, Husted SE, Johnsen SP. Use of Antithrombotic Therapy and Long-Term Clinical Outcome Among Patients Surviving Intracerebral Hemorrhage. STROKE. 2016;47(7):1837-1843.
- NO.4 Studies did not reported the studied outcomes (n=4)
- Stanton RJ, Eckman MH, Woo D, Moomaw CJ, Haverbusch M, Flaherty ML, Kleindorfer DO. Ischemic Stroke and Bleeding: Clinical Benefit of Anticoagulation in Atrial Fibrillation After Intracerebral Hemorrhage. STROKE. 2020;51(3):808-814.
- 2 Kato Y, Hayashi T, Suzuki K, Maruyama H, Kikkawa Y, Kurita H, Takao M. Resumption of Direct Oral Anticoagulants in Patients with Acute Spontaneous Intracerebral Hemorrhage. Journal of Stroke and Cerebrovascular Diseases. 2019;28(10):104292.
- 3 Vestergaard AS, Skjoth F, Lip GY, Larsen TB. Effect of Anticoagulation on Hospitalization Costs After Intracranial Hemorrhage in Atrial Fibrillation: A Registry Study. STROKE. 2016;47(4):979-985.
- Pennlert J, Asplund K, Carlberg B, Wiklund P, Wisten A, Åsberg S, Eriksson M. Antithrombotic Treatment Following Intracerebral
  Hemorrhage in Patients With and Without Atrial Fibrillation. STROKE. 2015;46(8):2094-2099.
- NO.5 Studies focused on AF patients with non-ICH bleeding (n=4)
  - Yokoyama M, Mizuma A, Terao T, Tanaka F, Nishiyama K, Hasegawa Y, Nagata E, Nogawa S, Kobayashi H, Yanagimachi N, Okazaki T, Kitagawa K, Takizawa S. Effectiveness of Nonvitamin K Antagonist Oral Anticoagulants and Warfarin for Preventing Further Cerebral Microbleeds in Acute Ischemic Stroke Patients with Nonvalvular Atrial Fibrillation and At Least One Microbleed: CMB-NOW Multisite Pilot Trial. Journal of Stroke and Cerebrovascular Diseases. 2019;28(7):1918-1925.

- Adeboyeje G, Sylwestrzak G, Barron JJ, White J, Rosenberg A, Abarca J, Crawford G, Redberg R. Major Bleeding Risk During Anticoagulation with Warfarin, Dabigatran, Apixaban, or Rivaroxaban in Patients with Nonvalvular Atrial Fibrillation. J Manag Care Spec Pharm. 2017;23(9):968-978.
- Lau WCY, Li X, Wong ICK, Man KKC, Lip GYH, Leung WK, Siu CW, Chan EW. Bleeding-related hospital admissions and 30-day readmissions in patients with non-valvular atrial fibrillation treated with dabigatran versus warfarin. J THROMB HAEMOST. 2017;15(10):1923-1933.
- 4 Hernandez I, Zhang Y, Brooks MM, Chin PKL, Saba S. Anticoagulation Use and Clinical Outcomes After Major Bleeding on Dabigatran or Warfarin in Atrial Fibrillation. STROKE. 2017;48(1):159-166.

Supplemental Table 4.	Classifications of ICH a	and diagnostic methods i	n the included studies
<b>FFF</b>			

_		Classifica	tion of ICH	Diagnostic methods			
Included studies	Traumatic	OAC-relate d	Spontaneo us	No classification	Brain MRI	Brain CT	Inpatients Medical Record
Komen-2021	×	×	×	$\checkmark$	$\checkmark$		
Lee-2020	×	×	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
Tsai-2020	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Newman-2020	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Nielsen-2019	×	×	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
Perreault-2019	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Nielsen-2017	$\checkmark$	$\checkmark$	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
Chao-2016	$\checkmark$	$\checkmark$		×	$\checkmark$	$\checkmark$	$\checkmark$
Park-2016	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Nielsen-2015	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Kuramatsu-2015	×	$\checkmark$	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
Lin-2022	×	×	×	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Lewis-2021	×	×	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$
Schreuder-2021	×	×	$\checkmark$	×	$\checkmark$	$\checkmark$	$\checkmark$

ICH= intracranial hemorrhage ; MRI= magnetic resonance imaging; CT= computerized tomography; " $\sqrt{}$ " = study included this ICH classification or ICH was diagnosed by this method; " $\times$ " = study did not include this ICH classification nor ICH was diagnosed by this method.

Supplemental Table 5. Statistical methods and weighted/adjusted risk factors in the included studies

Included studies	Effect estimates	Statistical methods	Weighted or adjusted risk factors
Lewis-2021	Hazard ratio	Primary outcome: Cox regression model	Primary outcome: the time since ICH onset; ICH types
			Secondary outcome: major vascular event, stroke, and stroke or vascular death
		Secondary outcome: Cox	
		regression model	
Schreuder-2021	Hazard ratio	Primary outcome: Cox regression model	Primary outcome: age and ICH location
		Secondary outcome: Cox regression model	Secondary outcome: recurrent ICH, all major hemorrhagic, occlusive and vascular events
Komen-2021	Adjusted	Cox proportional	Age, sex, individual components of the Charlson Comorbidity Index, CHA2DS2-VASc score,
	Hazard ratio	hazards model	modified HAS-BLED score, comorbidities (hypertension, diabetes mellitus, dyslipidemia,
			prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function,
			abnormal liver function, anti-platelet medication), use of OACs
Lee-2020	Hazard ratio	Multivariable Cox	Age, sex, CHA2DS2-VASc score, HAS-BLED score, Charlson comorbidity index,
		proportional hazards	comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart
		regression models	disease, congestive heart failure, abnormal kidney function, abnormal liver function,
			anti-platelet medication), concomitant medication (aspirin, clopidogrel, dual antiplatelet, etc.)

Tsai-2020	Hazard ratio	Multivariable Cox proportional hazards regression analysis	Age, sex, comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), use of antiplatelet drugs, and CHA2DS2-VASc score
Newman-2020	Hazard ratio	Cox proportional hazards models	Age, sex, race, comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), ischemic stroke/TIA, TE, bleeding, CHADS2-VASc score, HAS-BLED score, and concomitant medication (aspirin, clopidogrel, dual antiplatelet, etc.)
Nielsen-2019	Risk ratio	Generalized linear model	Age, sex, stroke severity category, days since hospital discharge , length of hospital stay for the index intracerebral hemorrhage event, reduced renal function, alcohol consumption, smoking status, CHA2DS2 -VASc score, and aspirin treatment
Perreault-2019	Adjusted hazard ratios	Cox proportional hazard models	Age, sex, prior thromboembolism (stroke/TIA/SE) and major bleeding (except ICH), comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), Score Charlson, CHA2DS2-VASc score, HAS-BLED score, length of stay, and concomitant medication (aspirin, clopidogrel, dual antiplatelet, etc.)

Nielsen-2017	Adjusted hazard ratios	Time-dependent Cox proportional hazards regression models	Age, sex, CHA2DS2-VASc score ,HAS-BLEDscore, prior previous thromboembolism, comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), days in hospital from the index event and concomitant medication (aspirin, clopidogrel, dual antiplatelet, etc.)
Chao-2016	Adjusted hazard ratios	Cox regression analysis	Age, sex, CHA2DS2-VASc score, comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), prior stroke/TIA, mean propensity score
Park-2016	Hazard ratio	Cox proportional hazards model	Age, sex, prior ischemic stroke, and previous warfarin medication
Nielsen-2015	Adjusted hazard ratio	Cox proportional hazard model	Age; sex; year of inclusion; time since last claimed OAC prescription before the incident ICH event; CHA2DS2-VASc score and HAS-BLED score
Kuramatsu-2015	Hazard ratio	Multivariable regression analysis	Age, sex, comorbidities (hypertension, diabetes mellitus, dyslipidemia, prior stroke, coronary heart disease, congestive heart failure, abnormal kidney function, abnormal liver function, anti-platelet medication), medication (aspirin, clopidogrel, dual antiplatelet, etc.), CHADS2 score, HAS-BLED score, initial imaging, time windows

Lin-2022	Hazard ratio	Cox proportional	Age, sex, prior comorbidities (congestive heart failure, hypertension, diabetes, coronary artery
		hazards model	disease, myocardial infarction, peripheral artery disease, IS, transient ischemic attack, peripheral arterial occlusive disease, venous thromboembolism, pulmonary embolism,
			gastrointestinal bleeding, other bleeding events, liver disease, and renal disease), and
			medications (calcium channel blockers, renin-angiotensin system inhibitors,
			3-hydroxy-3-methylglutaryl coenzyme A reductase inhibitors, non-steroidal
			anti-inflammatory drugs, class I and III anti-arrhythmic drugs, $\beta$ blockers, digoxin, and proton pump inhibitors.

ICH= intracranial hemorrhage ; TIA= transient ischemic attack; SE= systemic embolism; CHA2DS2-VASc=congestive heart failure/left ventricular ejection fraction  $\leq 40\%$ , hypertension, age  $\geq 75$  years (2 points), diabetes mellitus, prior stroke/transient ischemic attack/thromboembolism (2 points), vascular disease, age 65-74 years, female sex; HAS-BLED=Hypertension, Abnormal liver/renal function, Stroke, Bleeding history or predisposition, Labile international normalized ratio, Elderly, Drugs/alcohol concomitantly.

Contents for risk assessment	Assessment justification	Ratings				
Lewis-2021						
	A central, web-based,					
Random sequence	computerized randomization system applying a	Low risk				
generation (selection bias)	minimization algorithm randomly assigned participants					
	(1:1) to initiate and stop anticoagulant treatment					
Allocation concealment	The unique study identification number was allocated to every participants who were administrated to	T .1				
(selection bias)	oral anticoagulants	Low risk				
Blinding of participants and	Participants, clinicians and local investigators knew the treatment assignments, but participant identity,					
personnel (performance	treatment allocation,	Moderate risk				
bias)	and drug use was unknown to event adjudicators					
Dlinding of outcome	Reports of every outcome events were performed by internal assessor one medically trained clinical					
Blinding of outcome	research fellow, and investigators rated dependence and quality of life was evaluated by modified					
assessment (detection bias)	Rankin Scale and EQ-5D-5L, respectively					
Incomplete outcome data	Completeness of follow-up was performed by follow-up	Low risk				
(attrition bias)	questionnaire at each planned interval after randomization	LOW HSK				
Selective reporting	NS	UNCLEAR				
(reporting bias)	IND	UNCLEAK				
Other risk biases	NS					

## Supplementary Table 6. Risk of bias assessment for randomized clinical trials

Schreuder-2021						
Random sequence generation (selection bias)	Participants were (1:1) randomly allocated by a central computerized randomization system to either apixaban and stop anticoagulant treatment					
Allocation concealment (selection bias)	Treatment assignment was known to participants, their treating physicians, and local investigators	High risk				
Blinding of participants and personnel (performance bias)	Treatment assignment was known to participants, their treating physicians, and local investigators	High risk				
Blinding of outcome assessment (detection bias)	The adjudication committee accessing all potential outcomes was not aware of patient identity, treatment allocation, and drugs used; two neurologists with neurovascular expertise (LJK and GJER) and a cardiologist (H M Nathoe) were composed of this committee	Low risk				
Incomplete outcome data (attrition bias)	All participants were included in this study	Low risk				
Selective reporting (reporting bias)	NS	UNCLEAR				
Other risk biases	NS					

EQ-5D-5L=five-level EuroQol five-dimensional questionnaire

•

		Selection	(0-4 points)		Comparability (0-2 points)		Outcome (0-3 points)			
Included studies	Representativenes s of Exposed Cohort	Selection of Non-Expose d Cohort	Ascertain ment Of Exposure	Demonstration That Outcome of Interest Was Not Present at Start of Study	Adjust for the important Risk factors	Adjust for other risk factors	Assessme nt of outcome	Follow-u p length	Loss to follow-u p rate	Total points
Komen-2021	1	1	1	1	1	1	1	0	1	8
Lee-2020	1	1	1	0	1	1	1	1	1	8
Tsai-2020	1	1	1	0	1	1	1	1	1	8
Newman-2020	1	1	1	0	1	1	1	1	1	8
Nielsen-2019	1	1	1	0	1	1	1	1	1	8
Perreault-2019	1	1	1	1	1	1	1	1	1	9
Nielsen-2017#	1	1	1	1	1	1	1	1	1	9
Chao-2016	1	1	1	1	1	1	1	1	1	9
Park-2016	1	1	1	1	1	1	1	1	1	9
Nielsen-2015	1	1	1	1	1	1	1	1	1	9
Kuramatsu-2015	1	1	1	1	1	1	1	1	1	9
Lin-2022	1	1	1	1	1	1	1	1	1	9

## Supplementary Table 7. Quality assessment for observational cohorts using the NOS tool

<sup>#</sup>only used in the subgroup analysis of vitamin-K antagonists (VKAs) versus no VKAs. NOS=Newcastle-Ottawa Scale.

	OACs versus no OACs			VKA	As versus no V	KAs	NOACs versus VKAs		
Outcomes	Number of studies	Egger's (P-value)	Begg's (P-value)	Number of studies	Egger's (P-value)	Begg's (P-value)	Number of studies	Egger's (P-value)	Begg's (P-value)
Stroke or systemic embolism	6	0.052*	0.707	4	0.036*	0.089	-	-	-
Ischemic stroke	4	0.464	0.734	4	0.111	0.308	4	0.780	0.734
All-cause death	7	0.041 *	0.368	-	-	-	4	0.931	1.000
Intracranial hemorrhage	e 7	0.212	0.548	3	0.461	1.000	4	0.988	0.734
Major bleeding	5	0.674	0.806	-	-	-	-	-	-

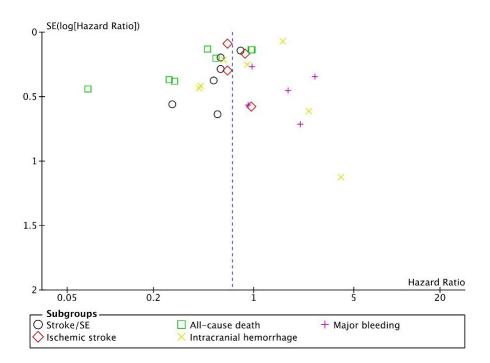
Supplementary Table 8. The publication bias assessed using the Egger's and Begg's tests

\* The results from the trim-and-fill analysis showed no trimming performed, and the corresponding pooled results were not changed.

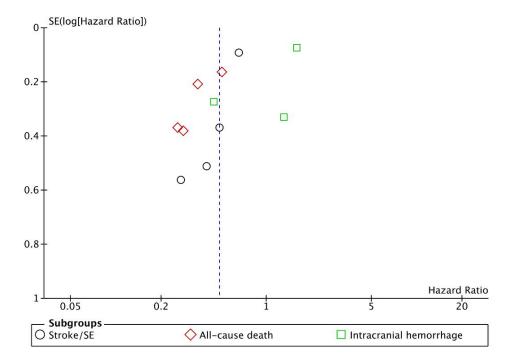
Name	Number	Sample size	Included experimental group and control group
STATICH	NCT0318	500 participants	Experimental group: with anticoagulant treatment
	6729		Control group: with no anticoagulant treatment
PRESTIGE-A	NCT0399	654 patients	Experimental group: with DOAC treatment
F	6772		Control group: with no anticoagulant treatment
ENRICH-AF	NCT0395	1200 patients	Experimental group: with edoxaban treatment
	0076		Control group: with no anticoagulant treatment
A3ICH	NCT0324	300 patients	Experimental group: with apixaban treatment
	3175		Control group: with LAA occlusion treatment
ASPIRE	NCT0390	700 patients	Experimental group: with apixaban treatment
	7046		Control group: with aspirin treatment

### Supplemental Table 9. Ongoing RCTs including patients with AF after ICH

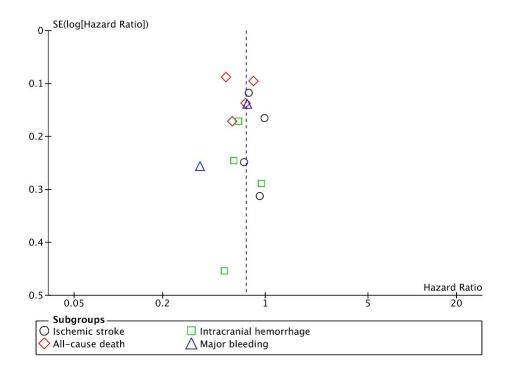
RCT=randomized clinical trial; STATICH= study of antithrombotic treatment after intracerebral hemorrhage; PRESTIGE-AF=prevention of stroke in intracerebral haemorrhage survivors with atrial fibrillation; ENRICH-AF=edoxaban for intraceranial hemorrhage survivors with atrial fibrillation; A3ICH=avoiding anticoagulation after intracerebral haemorrhage; ASPIRE=anticoagulation in ICH survivors for stroke prevention and recovery; DOAC=direct oral anticoagulant; LAA=left atrial appendage



Supplementary Figure 1. Funnel plots for OACs versus no OACs in AF patients after ICH



Supplementary Figure 2. Funnel plots for VKAs versus no VKAs in AF patients after ICH



Supplementary Figure 3. Funnel plots for NOACs versus VKAs in AF patients after ICH