

Supplementary Table 1. Continued

Section and topic	Item #	Checklist item	Location where item is reported
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.	6
Results of syntheses	20a	For each synthesis, briefly summarise the characteristics and risk of bias among contributing studies.	5, Supplementary Figure 1
	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.	6-7
	20c	Present results of all investigations of possible causes of heterogeneity among study results.	6-7
	20d	Present results of all sensitivity analyses conducted to assess the robustness of the synthesized results.	N/A
Reporting biases	21	Present assessments of risk of bias due to missing results (arising from reporting biases) for each synthesis assessed.	N/A
Certainty of evidence	22	Present assessments of certainty (or confidence) in the body of evidence for each outcome assessed.	6
DISCUSSION			
Discussion	23a	Provide a general interpretation of the results in the context of other evidence.	4, 7
	23b	Discuss any limitations of the evidence included in the review.	7
	23c	Discuss any limitations of the review processes used.	7
	23d	Discuss implications of the results for practice, policy, and future research.	4, 7
OTHER INFORMATION			
Registration and protocol	24a	Provide registration information for the review, including register name and registration number, or state that the review was not registered.	2
	24b	Indicate where the review protocol can be accessed, or state that a protocol was not prepared.	N/A
	24c	Describe and explain any amendments to information provided at registration or in the protocol.	N/A
Support	25	Describe sources of financial or non-financial support for the review, and the role of the funders or sponsors in the review.	8
Competing interests	26	Declare any competing interests of review authors.	8
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.	8

Supplementary Table 2. Search algorithms for MEDLINE (through Ovid), Embase, and Cochrane Library

Search strategy
Search algorithm for MEDLINE (through Ovid) ³⁾
1 exp Thrombectomy/ or (((Thrombophlebit?s or Thrombos?s) adj4 surger*) or Thrombectom* or (Surg* and remov* and EMBOLECTOM*)).mp. (19914)
2 Mechanical Thrombolysis/ or ((Mechani* adj3 (disrupt* or Thromb*)) or (procedur* and disintegrate* and THROMB*)).mp. (16235)
3 EMBOLECTOMY/ or (EMBOLECTOM* or (emboliism adj4 surger*)).mp. (4246)
4 Endovascular Procedures/ or ((Endovascular or intravenous) and (therap* or reperfusion or treat* or procedur* or techni* or surg*)).mp. (362172)
5 or/1-4 (388348)
6 Stroke/ or Thrombotic Stroke/ or Ischemic Stroke/ or Embolic Stroke/ or Stroke, Lacunar/ (132587)
7 (((infarct* or infract* or syndrome*) adj2 (thrombo* or Lacunar or Embolic or Ischemic)) or Stroke* or ((Cerebrovascular or vascular) adj2 Accident*) or CVA* or Apoplex*).mp. (386512)
8 Brain Ischemia/ or Brain Infarction/ (65143)
9 ((Cerebr* or Encephalopath* or Brain or Subcortical or "Anterior Choroidal Artery" or "Posterior Choroidal Artery") adj4 (ischem* or Infarct* or Infract*)).mp. (141949)
10 6 or 7 or 8 or 9 (458790)
11 5 and 10 (30573)

Supplementary Table 2. Continued

Search strategy	
12	((randomized controlled trial or controlled clinical trial).pt. or randomized.ab. or placebo.ab. or clinical trials as topic.sh. or randomly.ab. or trial.ti.) not (exp animals/ not humans.sh.) (1366192)
13	11 and 12 (4955)
Search algorithm for Embase	
#1	'mechanical thrombectomy'/de OR 'thrombectomy'/de (41329)
#2	((thrombophlebitis OR thrombosis) NEAR/4 surger*).ti,ab,kw OR thrombectom*.ti,ab,kw OR (surg*.ti,ab,kw AND remov*.ti,ab,kw AND embolectom*.ti,ab,kw) (29726)
#3	((mechani* NEAR/3 (disrupt* OR thromb*)):ti,ab,kw OR (procedur*.ti,ab,kw AND disintegrate*.ti,ab,kw AND thromb*.ti,ab,kw) (24544)
#4	'embolectomy'/de OR embolectom*.ti,ab,kw OR ((emboliism NEAR/4 surger*).ti,ab,kw) (7578)
#5	'endovascular surgery'/de OR ((endovascular:ti,ab,kw OR intravenous:ti,ab,kw) AND (therap*.ti,ab,kw OR reperfusion:ti,ab,kw OR treat*.ti,ab,kw OR procedur*.ti,ab,kw OR techni*.ti,ab,kw OR surg*.ti,ab,kw)) (391352)
#6	#1 OR #2 OR #3 OR #4 OR #5 (440991)
#7	'cerebrovascular accident'/de OR 'ischemic stroke'/de OR 'embolic stroke of undetermined source'/de OR 'embolic stroke of unknown source'/de OR 'cardioembolic stroke'/de OR 'lacunar stroke'/de (403332)
#8	'brain ischemia'/de OR 'brain infarction'/de (205716)
#9	((cerebr* OR encephalopath* OR brain OR subcortical OR 'anterior choroidal artery' OR 'posterior choroidal artery') NEAR/4 (ischem* OR infarct* OR infract*)):ti,ab,kw (130233)
#10	#7 OR #8 OR #9 (743473)
#11	#6 AND #10 (54294)
#12	'clinical trial'/de OR 'randomized controlled trial'/de OR 'randomization'/de OR 'single blind procedure'/de OR 'double blind procedure'/de OR 'crossover procedure'/de OR 'placebo'/de OR 'prospective study'/de OR ('randomized controlled' NEXT/1 trial*) OR rct OR 'randomly allocated' OR 'allocated randomly' OR 'random allocation' OR (allocated NEAR/2 random) OR (single NEXT/1 blind*) OR (double NEXT/1 blind*) OR ((treble OR triple) NEAR/1 blind*) OR placebo* (2815499)
#13	#11 AND #12 (12110)
Search algorithm for Cochrane Library	
#1	MeSH descriptor: [Thrombectomy] explode all trees (550)
#2	((((Thrombophlebitis or Thrombosis) NEAR/3 surger*) or Thrombectom* or (Surg* and remov* and EMBOLECTOM*)):ti,ab,kw (2707)
#3	MeSH descriptor: [Mechanical Thrombolysis] this term only (53)
#4	((((Mechani* NEAR/2 (disrupt* or Thromb*)) or (procedur* and disintegrate* and THROMB*)):ti,ab,kw (935)
#5	MeSH descriptor: [Embolectomy] this term only (18)
#6	((EMBOLECTOM* or (emboliism NEAR/3 surger*)):ti,ab,kw (141)
#7	MeSH descriptor: [Endovascular Procedures] this term only (808)
#8	((((Endovascular or intravenous) and (therap* or reperfusion or treat* or procedur* or techni* or surg*)):ti,ab,kw (86495)
#9	{OR #1-#8} (88318)
#10	MeSH descriptor: [Stroke] this term only (12830)
#11	MeSH descriptor: [Thrombotic Stroke] this term only (3)
#12	MeSH descriptor: [Ischemic Stroke] this term only (624)
#13	MeSH descriptor: [Embolic Stroke] this term only (18)
#14	MeSH descriptor: [Stroke, Lacunar] this term only (54)
#15	((((infarct* or infract* or syndrome*) NEAR/1 (thrombo* or Lacunar or Embolic or Ischemic)) or Stroke* or ((Cerebrovascular or vascular) NEAR/1 Accident*) or CVA* or Apoplex*):ti,ab,kw (71262)
#16	MeSH descriptor: [Brain Ischemia] this term only (2394)
#17	MeSH descriptor: [Brain Infarction] this term only (129)
#18	((((Cerebr* or Encephalopath* or Brain or Subcortical or "Anterior Choroidal Artery" or "Posterior Choroidal Artery") NEAR/3 (ischem* or Infarct* or Infract*)):ti,ab,kw (13902)
#19	{OR #10-#18} (76034)
#20	#9 AND #19 (6529)

^aDatabase: Ovid MEDLINE® Epub Ahead of Print and In-Process, In-Data-Review & Other Non-Indexed Citations and Daily <1946 to February 10, 2021>.