

Search strategy for each database:

Database	Search strategy	Results
Ovid Medline	1 exp Ischemic Stroke/ or exp Stroke/ 171158 2 stroke\$.mp. 375518 3 exp Cerebral Infarction/ or exp Infarction/ 244572 4 exp Infarction, Posterior Cerebral Artery/ 304 5 PCA\$.mp. 65658 6 posterior cerebral artery\$.mp. 3849 7 exp Thrombectomy/ 11166 8 thrombectomy\$.mp. 18760 9 Endovascular\$.mp. 72627 10 7 or 8 or 9 85649 11 4 or 5 or 6 68379 12 1 or 2 or 3 580901 13 10 and 11 and 12 195	195
Embase	('stroke'/exp OR 'ischemic stroke'/exp OR 'large vessel occlusion'/exp OR 'medium vessel occlusion') AND ('endovascular thrombectomy'/exp OR 'thrombectomy'/exp OR 'mechanical thrombectomy'/exp OR 'endovascular procedure'/exp) AND ('posterior cerebral artery'/exp OR 'pca'/exp OR 'p1' OR 'p2' OR 'p3')	333
Web of Science	(ALL=(stroke) OR ALL=(ischemic stroke) OR ALL=(Large vessel occlusion) OR ALL=(LVO) OR ALL=(medium distal vessel occlusion) OR ALL=(medium vessel occlusion) OR ALL=(MeVO) OR ALL=(MDVO)) AND (ALL=(endovascular thrombectomy) OR ALL=(endovascular procedures) OR ALL=(mechanical thrombectomy) OR ALL=(thrombectomy) OR ALL=(embolectomy)) AND (ALL=(Posterior Cerebral Artery) OR ALL=(PCA) OR ALL=(P1) OR ALL=(P2) OR ALL=(P3))	405
Ovid CENTRAL	1 exp Ischemic Stroke/ or exp Stroke/ 14437 2 stroke\$.mp. 67128 3 exp Cerebral Infarction/ or exp Infarction/ 15949 4 exp Infarction, Posterior Cerebral Artery/ 5 5 PCA\$.mp. 6288 6 posterior cerebral artery\$.mp. 151 7 exp Thrombectomy/ 654 8 thrombectomy\$.mp. 2089 9 Endovascular\$.mp. 4694 10 7 or 8 or 9 5909 11 4 or 5 or 6 6385 12 1 or 2 or 3 78767 13 10 and 11 and 12 24	24

Table S1: Baseline characteristics of patients treated with endovascular thrombectomy or best medical management for each study included in the meta-analysis.

Study ID	No. patients (% female)		Age Median (IQR)		Baseline NIHSS Median (IQR)		Baseline mRS Median (IQR) or N (%)		IVT N (%)	
	EVT	BMM	EVT	BMM	EVT	BMM	EVT	BMM	EVT	BMM
Cunha et al, 2021	25 (36.0)	13 (46.2)	80.2 (73.8-83.4)	74.9 (68.9-82.5)	10 (6-14.5)	10 (6-14.5)	0 : n= 22 (88.0%) 2 : n= 0 (0%) 3 : n= 3 (12.0%) 4 : n= 0 (0%)	0 : n= 10 (76.9%) 2 : n= 1 (7.7%) 3 : n= 0 (0%) 4 : n= 2 (15.4%)	14 (56)	13 (100)
Herweh et al, 2021	23 (39.1)	107 (47.7)	77.5 (66-82)	Mean (SD) 74 (13.1)	9 (1-20)	7 (1-38)	Median (IQR): 0 (0-4)	1 (0-3)	5 (21.7)	44 (41.1)
Maulucci et al, 2023	119 (35.3)	149 (45.6)	72.2 (62.1-80.0)	75.7 (66.5-83.6)	7 (5-13)	7 (5-13)	0 : n= 90 (75.6%) 1 : n= 15 (12.6%) 2 : n= 14 (11.8%)	0 : n= 109 (73.2%) 1 : n= 31 (20.8%) 2 : n= 9 (6.0%)	69 (57.98)	149 (100)
Meyer et al, 2021	143 (44.8)	100 (50.0)	75 (62-81)	75 (62-81)	7 (4-11)	7 (4-11)	Median (IQR): 0 (0-1)	0 (0-2)	57 (39.9)	56(56.0)
Nguyen et al, 2023	378 (42.9)	645 (42.2)	74 (64-82)	75 (64-82)	8 (5-12)	8 (5-12)	0 : n= 283 (63%) 1 : n= 74 (22.0%) 2 : n= 39 (10.3%) 3 : n= 27 (7.1%)	0 : n= 341 (52.9%) 1 : n= 142 (22.0%) 2 : n= 90 (14.0%) 3 : n= 72 (11.2%)	152 (40.2)	287 (45.5)
Sabben et al, 2023	167 (47.3)	585 (42.7)	72 (62-82)	74 (63-83)	8 (5-11)	8 (5-11)	Median (IQR): 0 (0-1)	0 (0-1)	90 (53.9)	467 (79.8)
Strambo et al, 2020	21 (61.9)	85 (43.5)	71 (64-78.2)	76.6 (68.3-83.8)	7 (5-8.3)	7 (5-8.3)	mRS >2= n= 1 (4.8%)	mRS >2= n= 10 (11.8%)	13 (61.9)	34(40)

Abbreviations: EVT, endovascular thrombectomy; BMM, best medical management; NIHSS, National Institutes of Health Stroke Scale; mRS, modified Rankin scale; IVT, intravenous thrombolysis; SD, standard deviation; IQR, interquartile range.

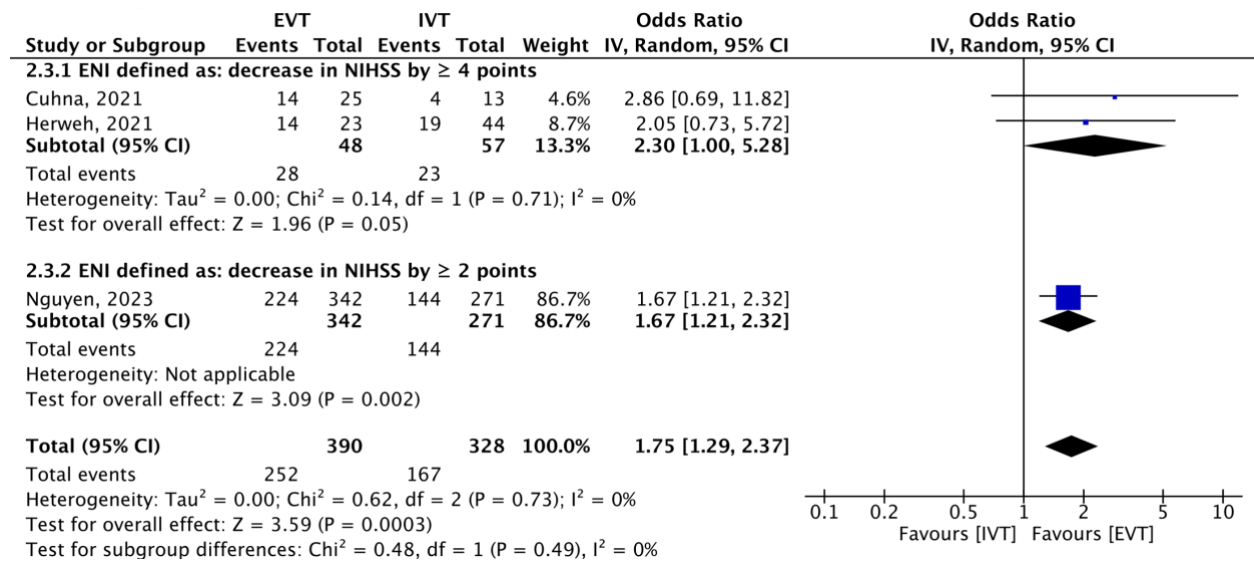
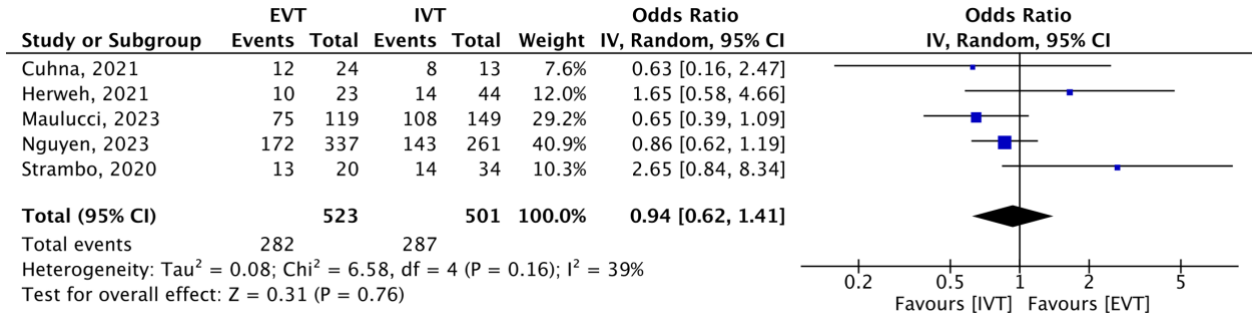


Figure S1: Rates of Early Neurological Improvements for patient groups treated with either endovascular thrombectomy or intravenous thrombolysis. IVT, Intravenous Thrombolysis; EVT, Endovascular Thrombectomy; ENI, Early Neurological Improvement; NIHSS, National Institutes of Health Stroke Scale; CI, confidence interval; IV, Inverse Variance.

A.



B.

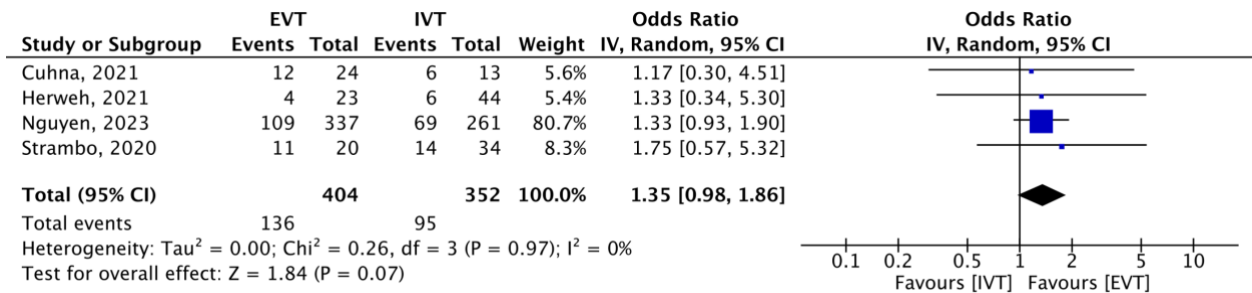
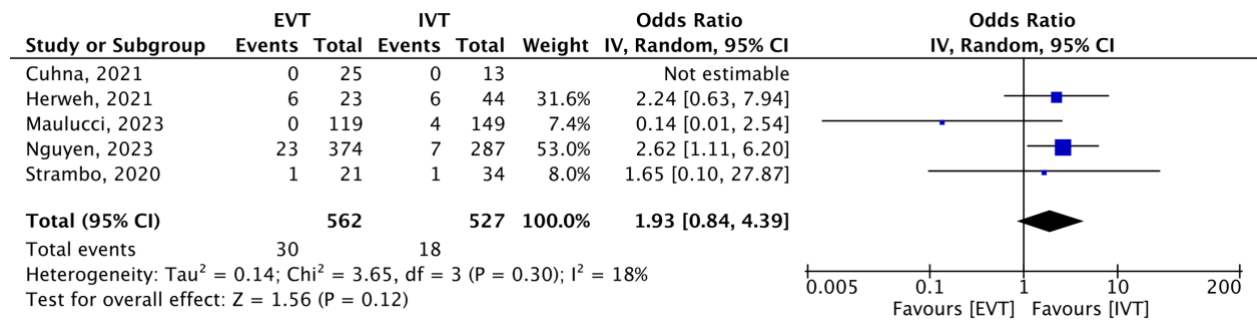


Figure S2: A: rates of favorable functional outcome (mRS score of 0-2) at 3 months for patient groups treated with either endovascular thrombectomy or intravenous thrombolysis. **B:** Rates of excellent functional outcome (mRS score of 0-1) at 3 months for patient groups treated with either endovascular thrombectomy or intravenous thrombolysis. IVT, Intravenous Thrombolysis; EVT, Endovascular Thrombectomy; mRS, Modified Rankin Scale; CI, Confidence Interval; IV, Inverse Variance.

A.



B.

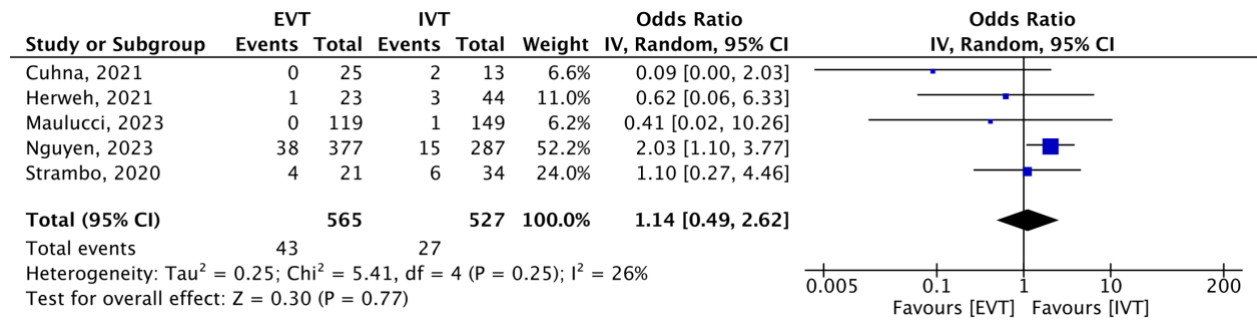


Figure S3: A: sICH rates for patient groups treated with either endovascular thrombectomy or intravenous thrombolysis. **B:** Mortality rates at 3 months for patient groups treated with either endovascular thrombectomy or intravenous thrombolysis. IVT, Intravenous Thrombolysis; EVT, Endovascular Thrombectomy; CI, Confidence Interval; IV, Inverse Variance.