

Interventional Management of Acute Mesenteric Venous Thrombosis: A Systematic Review of Current Evidence, Emerging Techniques, and Future Perspectives

Supplementary Table S3.

Study Characteristics and Newcastle-Ottawa Scale (NOS) Risk-of-Bias Assessment of Included Primary Studies (n = 34)

Study (Year)	Year	Design	Region	Selection (max 4)	Comparability (max 2)	Outcome (max 3)	Total (/9)
Plessier et al.	2010	Prospective, multicenter	Europe	3/4	1/2	3/3	7/9
Salim et al.	2018	Retrospective	Europe	3/4	1/2	3/3	7/9
Kim et al.	2024	Retrospective	Asia	3/4	1/2	2/3	6/9
Hollingshead et al.	2005	Retrospective	North America	3/4	1/2	2/3	6/9
Chiang et al.	2022	Retrospective	Asia	3/4	1/2	3/3	7/9
Wei et al.	2025	Retrospective	Europe	3/4	1/2	3/3	7/9
Han G et al.	2011	Retrospective	Asia	3/4	1/2	3/3	7/9
Shalvoy et al.	2023	Retrospective	North America	4/4	1/2	3/3	8/9
Alnahhal et al.	2022	Retrospective	North America	3/4	1/2	3/3	7/9
Sullivan et al.	2023	Retrospective	North America	3/4	1/2	2/3	6/9
Maldonado et al.	2016	Retrospective	North America	2/4	0/2	2/3	4/9
Yang S et al.	2016	Retrospective	Asia	4/4	1/2	3/3	8/9
Wang MQ et al.	2009	Retrospective	Asia	3/4	0/2	2/3	5/9
Yang SF et al.	2014	Retrospective	Asia	3/4	0/2	2/3	5/9
Andraska et al.	2020	Retrospective	North America	4/4	2/2	1/3	7/9
Abraham et al.	2011	Retrospective	North America	4/4	0/2	3/3	7/9
Hedayati et al.	2008	Retrospective	North America	4/4	2/2	1/3	7/9
Ramalingam et al.	2023	Retrospective	North America	4/4	0/2	3/3	7/9
Zhang Z et al.	2023	Retrospective	Asia	4/4	1/2	2/3	7/9
Mansour N et al.	2022	Retrospective, bicentric	Europe	4/4	2/2	3/3	9/9
Wu B et al.	2024	Retrospective	Asia	3/4	0/2	2/3	5/9
Smalberg et al.	2008	Retrospective	Europe	3/4	0/2	3/3	6/9
Morasch et al.	2001	Retrospective	North America	3/4	0/2	3/3	6/9
Brunaud et al.	2001	Retrospective	Europe	4/4	0/2	3/3	7/9
Zhang J et al.	2004	Retrospective	Asia	4/4	0/2	3/3	7/9
Janssen et al.	2001	Retrospective, multicenter	Europe	4/4	2/2	3/3	9/9
Kim HS et al.	2005	Retrospective	North America	3/4	0/2	2/3	5/9
Thatipelli et al.	2010	Retrospective, registry	North America	4/4	2/2	3/3	9/9
Wang MQ et al.	2011	Retrospective	Asia	3/4	0/2	3/3	6/9
Acosta et al.	2008	Retrospective, registry	Europe	3/4	2/2	3/3	8/9
Al-Thani et al.	2015	Retrospective	Middle East	4/4	0/2	2/3	6/9
Alvi et al.	2009	Retrospective	Asia	4/4	1/2	3/3	8/9
Saito et al.	2023	Retrospective	Asia	4/4	2/2	3/3	9/9
Yanar et al.	2013	Retrospective	Middle East	4/4	0/2	3/3	7/9

Randomized Controlled Trial (n=1) — Cochrane RoB 2.0 Assessment

Study (Year)	D1: Randomization	D2: Deviations	D3: Missing Data	D4: Outcome Measurement	D5: Selective Reporting	Overall
Jiang et al. (2017)	Some concerns	Low	Low	Some concerns	Some concerns	Some concerns

D1: randomization process (allocation concealment not reported); D2: deviations from intended intervention (none; no crossover); D3: missing outcome data (0 lost to follow-up in either arm); D4: measurement of the outcome (objective imaging-based endpoints, but outcome assessors not explicitly blinded, inherent to an open-label device comparison); D5: selective reporting (no prospective trial registry entry identified). Only the TIPS arm of this trial is presented in Table 1/Table 2; the comparator arm (superior mesenteric artery urokinase infusion) does not correspond to a predefined treatment category in this review and is discussed narratively only.