

SUPPLEMENTAL TABLE

Supplemental Table 1: Relevant data regarding the seven studies that used a TICI classification but were not retained for the present review (see Methods and Results)

First author, year	Number of patients included and TICI grade studied	TICI classification used	Post-MT perfusion imaging timing/method	Definition of hypoperfusion	Exclusion of ICA stenosis	Exclusion of intracranial reocclusion	Exclusion of areas with hemorrhage	N (%) of patients with hypoperfusion	Impact on clinical outcome
Marks, 2014 ¹	40/TICI2b-3	Original TICI	12hr/PWI	<50% reduction of the pre-MT Tmax>6s lesion volume in the affected hemisphere	No	No	No	6/40 (15%)	Not reported
Albers, 2015 ² / Mokin, 2017	N not reported ^A /TICI 3	Original TICI	Mean 27hr/CTP	<90% reduction of the pre-MT Tmax>6s volume in the affected hemisphere	No	No	No	7%	Not reported
Rubiera, 2020 ³	94/mTICI 3	mTICI not including TICI2c	≤30min/CTP	Presence of post-MT Tmax≥6s in the affected hemisphere	No	Not specified	Not specified	40/94 (42.5%)	Yes
Bai, 2022 ⁴	44/mTICI2c-3 ^B	mTICI including TICI2c	within 72hr/CTP	< 90% reduction of the pre-MT Tmax>6s volume in the affected hemisphere	Not specified	Yes	No	10/44 (23%)	Negative impact (for mTICI2b-3)
Rosso, 2022 ⁵	42/TICI>2b	Original TICI	24hr/MRI-ASL	≥20% decrease in post-MT CBF compared to mirror region within the infarct and in the surrounding tissue	No ^D	No ^E	No	8/42 (19%)	Analysis according to TICI grade not reported
Luby, 2022 ⁶	27 ^C /mTICI3	mTICI not including TICI2c	24hr/PWI	Post-MT Tmax >6 s volume >10 mL in the affected hemisphere	No	Yes	No	2/27 (7%)	Analysis according to TICI grade not reported
Luby, 2023 ⁷	67/mTICI2b-3	mTICI not including TICI2c	Within 6hr and again at 24-hour/ PWI	Visually-assessed hypoperfused regions within the ischemic territory	No	No	No	41/67 (61%) at first assessment, 25/65 (38%) at 2nd assessment	Not reported

Legend : A: Number of patients not reported in the Albers et al SWIFT-PRIME study article, where it is just mentioned in the Methods section that 93% of the TIC13 patients who also had 27hr perfusion imaging had >90% reperfusion. However, in a subsequent sub-study of SWIFT PRIME by Mokin et al that included only the 29 patients with complete reperfusion, 23 patients were classified as TIC13. Thus, it can be assumed that the number of TIC13 patients in Albers et al was 25, of whom 23 (92%) had complete reperfusion; B: Hypoperfusion rates not reported separately for mTIC12c vs mTIC13 patients, and no response to emails requesting this data; C: 31 patients with TIC1 3 initially included, but 4 patients secondarily excluded to due reocclusion or distal emboli; D: 2 patients had ICA stenosis; E: 2 patients had reocclusion. **Abbreviations:** ASL: Arterial Spin Labeling; CTP: Computed Tomography Perfusion; DT: Delay Time; ICA: Internal Carotid Artery; MRI: Magnetic Resonance Imaging; MT: Mechanical Thrombectomy; PWI: Perfusion Weighted Imaging; TIC1: Thrombolysis in Cerebral Infarction (mTIC1: modified TIC1; eTIC1: expanded TIC1).

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