

Supplemental Table 1. Outcomes of cases meeting top-tier AHA Evidence for MT (n=349) compared with cases not meeting top AHA recommendations for location of intracranial occlusion (n=144)

Outcome	Cases meeting Top-tier AHA Evidence for MT (n=349)	Cases not meeting AHA recommendations for location of intracranial occlusion for MT (n=144)	p-Value	Multivariable analyses OR (95%CI) ^c	Multivariable analyses p-Value ^c
Complete recanalization, n (%)	249 (71%)	94 (65%)	0.183	N/A ^d	N/A ^d
mRS 0–2 at 3 months, n (%) ^a	142 (47%)	53 (42%)	0.315	N/A ^d	N/A ^d
Symptomatic intracranial hemorrhage, n (%)	30 (9%)	6 (4%)	0.086	N/A ^d	N/A ^d
3-month mortality, n (%) ^b	58 (19%)	43 (34%)	0.001	1.25 (0.62–2.50) ^d	0.535 ^d

Abbreviations: AHA=American Heart Association; IQR=interquartile range; mRS: modified Rankin Scale; MT=mechanical thrombectomy; sICH=Symptomatic Intracranial Hemorrhage.

^aThree-month functional outcome was available in 429 patients.

^bThree-month mortality data was available in 429 patients.

^cAfter adjustment for admission stroke severity, pre-treatment with intravenous thrombolysis, location of occlusion and onset to groin puncture time

^dN/A: not applicable because no significant association ($p < 0.05$) was detected in univariable analyses.

Supplemental Table 2. Outcomes of cases meeting top-tier AHA Evidence for MT (n=349) compared with cases not meeting top AHA recommendations for onset to groin puncture time (n=108)

Outcome	Cases meeting Top-tier AHA Evidence for MT (n=349)	Cases not meeting AHA recommendations for onset to groin puncture time (n=108)	p-Value	Multivariable analyses OR (95%CI) ^c	Multivariable analyses p-Value ^c
Complete recanalization, n (%)	249 (71%)	74 (69%)	0.573	N/A ^d	N/A ^d
mRS 0–2 at 3 months, n (%) ^a	142 (47%)	32 (34%)	0.032	0.97 (0.42–2.28) ^d	0.949 ^d
Symptomatic intracranial hemorrhage, n (%)	30 (9%)	15 (14%)	0.107	N/A ^d	N/A ^d
3-month mortality, n (%) ^b	58 (19%)	26 (28%)	0.080	N/A ^d	N/A ^d

Abbreviations: AHA=American Heart Association; IQR=interquartile range; mRS: modified Rankin Scale; MT=mechanical thrombectomy; sICH=Symptomatic Intracranial Hemorrhage.

^aThree-month functional outcome was available in 396 patients.

^bThree-month mortality data was available in 396 patients.

^cAfter adjustment for admission stroke severity, pre-treatment with intravenous thrombolysis, location of occlusion and onset to groin puncture time

^dN/A: not applicable because no significant association (p<0.05) was detected in univariable analyses.

Supplemental Table 3. Outcomes of cases meeting top-tier AHA Evidence for MT (n=349) compared with cases with posterior circulation occlusions (n=72)

Outcome	Cases meeting Top-tier AHA Evidence for MT (n=349)	Cases with posterior circulation occlusions (n=72)	p-Value	Multivariable analyses OR (95%CI) ^d	Multivariable analyses p-Value ^d
Complete recanalization, n (%)	249 (71%)	51 (71%)	0.930	N/A ^e	N/A ^e
mRS 0–2 at 3 months, n (%) ^a	142 (47%)	22 (35%)	0.079	N/A ^e	N/A ^e
Symptomatic intracranial hemorrhage, n (%)	30 (9%)	2 (3%)	0.139 ^c	N/A ^e	N/A ^e
3-month mortality, n (%) ^b	58 (19%)	31 (49%)	<0.001	1.70 (0.56–5.15) ^d	0.349 ^e

Abbreviations: AHA=American Heart Association; IQR=interquartile range; mRS=modified Rankin Scale; MT=mechanical thrombectomy; sICH=Symptomatic Intracranial Hemorrhage.

^aThree-month functional outcome was available in 365 patients.

^bThree-month mortality data was available in 365 patients.

^c^bby Fisher's exact test.

^dAfter adjustment for admission stroke severity, pre-treatment with intravenous thrombolysis, location of occlusion and onset to groin puncture time

^eN/A: not applicable, because no significant association ($p < 0.05$) was detected in univariable analyses.

Supplemental Table 4. Outcomes of cases meeting top-tier AHA Evidence for MT (n=349) compared with cases with distal (M2 & M3) middle cerebral artery (MCA) occlusions (n=68)

Outcome	Cases meeting Top-tier AHA Evidence for MT (n=349)	Cases with distal MCA occlusions (n=68)	p-Value	Multivariable analyses OR (95%CI) ^d	Multivariable analyses p-Value ^d
Complete recanalization, n (%)	249 (71%)	41 (60%)	0.070	N/A ^e	N/A ^e
mRS 0–2 at 3 months, n (%) ^a	142 (47%)	28 (47%)	0.960	N/A ^e	N/A ^e
Symptomatic intracranial hemorrhage, n (%)	30 (9%)	4 (6%)	0.629 ^c	N/A ^e	N/A ^e
3-month mortality, n (%) ^b	58 (19%)	12 (20%)	0.887	N/A ^e	N/A ^e

Abbreviations: AHA=American Heart Association; IQR=interquartile range; mRS: modified Rankin Scale; MT=mechanical thrombectomy; sICH=Symptomatic Intracranial Hemorrhage.

^aThree-month functional outcome was available in 362 patients.

^bThree-month mortality data was available in 362 patients.

^c^bby Fisher's exact test.

^dAfter adjustment for admission stroke severity, pre-treatment with intravenous thrombolysis, location of occlusion and onset to groin puncture time

^eN/A: not applicable, because no significant association ($p < 0.05$) was detected in univariable analyses.

Supplemental Table 5. Outcomes of cases meeting top-tier AHA Evidence for MT (n=349) compared with cases not meeting top AHA recommendations for location of intracranial occlusion and onset to groin puncture time (n=30)

Outcome	Cases meeting Top-tier AHA Evidence for MT (n=349)	Cases not meeting top AHA recommendations for location of intracranial occlusion and onset to groin puncture time (n=30)	p-Value	Multivariable analyses OR (95%CI) ^d	Multivariable analyses p-Value ^d
Complete recanalization, n (%)	249 (71%)	19 (63%)	0.355	N/A ^e	N/A ^e
mRS 0–2 at 3 months, n (%) ^a	142 (47%)	9 (36%)	0.288	N/A ^e	N/A ^e
Symptomatic intracranial hemorrhage, n (%)	30 (9%)	3 (10%)	0.736 ^c	N/A ^e	N/A ^e
3-month mortality, n (%) ^b	58 (19%)	11 (44%)	0.004	3.43 (0.67–17.55) ^e	0.138 ^e

Abbreviations: AHA=American Heart Association; IQR=interquartile range; mRS: modified Rankin Scale; MT=mechanical thrombectomy; sICH=Symptomatic Intracranial Hemorrhage.

^aThree-month functional outcome was available in 327 patients.

^bThree-month mortality data was available in 327 patients.

^cby Fisher's exact test.

^dAfter adjustment for admission stroke severity, pre-treatment with intravenous thrombolysis, location of occlusion and onset to groin puncture time

^eN/A: not applicable, because no significant association ($p < 0.05$) was detected in univariable analyses.