

Table S1 Baseline and post-thrombectomy clinical and imaging characteristics that stratified by SMCV+ vs. SMCV-

Characteristics	SMCV+ (n=31)	SMCV- (n=21)	Test value	P value
Female, n (%)	9 (29.0)	6 (28.6)	$\chi^2=0.001$	0.971
Age (year), median [IQR]	69 [61–81]	73 [59.5–79]	Z=-0.131	0.896
Transferred from local hospitals, n (%)	16 (51.6)	12 (57.1)	$\chi^2=0.154$	0.695
OIT (min), mean \pm SD	200.9 \pm 107.4	212.5 \pm 91.2	t=-0.401	0.690
OPT (min), mean \pm SD	228.5 \pm 101.7	238.0 \pm 84.4	t=-0.353	0.725
Baseline NIHSS score, median [IQR]	17 [13–22]	21 [18–23.5]	Z=-1.982	0.047
Hypertension, n (%)	21 (67.7)	13 (61.9)	$\chi^2=0.188$	0.664
Diabetes mellitus, n (%)	4 (12.9)	4 (19.0)	$\chi^2=0.363$	0.547
Atrial fibrillation, n (%)	11 (35.5)	7 (33.3)	$\chi^2=0.026$	0.873
Previous stroke, n (%)	4 (12.9)	7 (33.3)	$\chi^2=3.133$	0.095
Coronary artery disease, n (%)	4 (12.9)	6 (28.6)	$\chi^2=1.979$	0.160
Temperature ($^{\circ}$ C), mean \pm SD	36.8 \pm 0.4	36.7 \pm 0.5	t=0.776	0.441
Baseline systolic blood pressure (mmHg), mean \pm SD	149.4 \pm 25.0	154.4 \pm 28.0	t=-0.684	0.497
Baseline diastolic blood pressure (mmHg), mean \pm SD	81.1 \pm 13.1	82.6 \pm 13.0	t=-0.413	0.682
Baseline serum glucose (mmol/L) , mean \pm SD	8.0 \pm 3.0	8.1 \pm 3.1	t=-0.067	0.947
Baseline ASPECT score, median [IQR]	8 [7–9]	7 [6–8.8]	Z=-1.311	0.190
Cardiogenic stroke, n (%)	15 (48.4)	12 (57.1)	$\chi^2=0.384$	0.535
Poor collaterals, n (%)	4 (12.9)	14 (66.7)	$\chi^2=15.988$	<0.001
Intravenous thrombolysis, n (%)	12 (38.7)	6 (28.6)	$\chi^2=0.569$	0.451
Times of thrombectomy passes	2 [2–4]	2 [2–3]	Z=-0.148	0.882
Tirofiban, n (%)	4 (12.9)	0 (0)	$\chi^2=2.935$	0.138
Recanalization, n (%)	28 (90.3)	17 (81.0)	$\chi^2=0.944$	0.331
Reperfusion, n (%)	29 (93.5)	15 (71.4)	$\chi^2=4.705$	0.039
24–72 h NIHSS, median [IQR]	14 [7–21]	21 [18–23.5]	Z=-3.664	<0.001
Decompressive craniectomy, n (%)	1 (3.2)	9 (42.9)	$\chi^2=12.659$	<0.001
Midline shift, n (%)	1 (3.2)	13 (61.9)	$\chi^2=21.910$	<0.001
Poor outcome, n (%)	10 (32.3)	17 (81.0)	$\chi^2=11.892$	<0.001

SMCV-, absent filling of ipsilateral superficial middle cerebral vein; SD, standard deviation; IQR, interquartile range; OIT: onset to imaging time; OPT, onset to puncture time; NIHSS, National Institute of Health stroke scale.

Table S2 Multivariate analysis for factors associating with PH after thrombectomy

Model	OR	95% CI	P value
Model 1			
SMCV-	1.320	0.264–6.598	0.735
Poor collaterals	4.603	0.889–23.824	0.069
Intravenous thrombolysis	0.176	0.031–0.996	0.049
Model 2			
SMCV-	0.722	0.102–5.090	0.744
Poor collaterals	6.737	0.969–46.821	0.054
Intravenous thrombolysis	0.104	0.013–0.831	0.033
Reperfusion	0.110	0.013–0.913	0.041

OR, odds ratio; SMCV-, absent filling of ipsilateral superficial middle cerebral vein.

Table S3 Baseline and post-thrombectomy clinical and imaging characteristics that stratified by no reperfusion *vs.* reperfusion

Characteristics	No reperfusion (n=8)	Reperfusion (n=44)	Test value	P value
Female, n (%)	2 (25.0)	13 (29.5)	$\chi^2=0.068$	0.794
Age (years), median [IQR]	73 [67.8–81.8]	71 [57.3–79]	Z=0.329	0.335
Transferred from local hospitals, n (%)	6 (75.0)	22 (50.0)	$\chi^2=1.702$	0.192
OIT (min), mean \pm SD	234.9 \pm 105.2	195.5 \pm 86.7	t=1.138	0.261
OPT (min), mean \pm SD	254.4 \pm 94.0	223.5 \pm 82.8	t=0.946	0.349
Baseline NIHSS score, median [IQR]	20.5 [18.5–21.8]	19.5 [14.5–23]	Z=0.629	0.645
Hypertension, n (%)	6 (75.0)	28 (63.6)	$\chi^2=0.386$	0.534
Diabetes mellitus, n (%)	2 (25.0)	6 (13.6)	$\chi^2=0.671$	0.413
Atrial fibrillation, n (%)	2 (25.0)	16 (36.4)	$\chi^2=0.386$	0.534
Previous stroke, n (%)	3 (37.5)	8 (18.2)	$\chi^2=1.515$	0.218
Coronary artery disease, n (%)	1 (12.5)	9 (20.5)	$\chi^2=0.276$	0.599
Temperature ($^{\circ}$ C), mean \pm SD	36.8 \pm 0.5	36.8 \pm 0.5	t=0.058	0.954
Baseline systolic blood pressure (mmHg), mean \pm SD	160.8 \pm 27.9	149.7 \pm 25.7	t=1.103	0.275
Baseline diastolic blood pressure (mmHg), mean \pm SD	86.5 \pm 12.6	80.8 \pm 13.0	t=1.141	0.259
Baseline serum glucose (mmol/L), mean \pm SD	8.9 \pm 4.0	7.9 \pm 2.9	t=0.879	0.383
Baseline ASPECT score, median [IQR]	7 [4.5–8]	8 [7–9]	Z=0.138	0.154
Cardiogenic stroke, n (%)	4 (50.0)	23 (52.3)	$\chi^2=0.014$	0.906
SMCV-, n (%)	6 (75.0)	15 (34.1)	$\chi^2=4.705$	0.030
Poor collaterals, n (%)	4 (50.0)	14 (31.8)	$\chi^2=0.989$	0.320
Intravenous thrombolysis, n (%)	3 (37.5)	15 (34.1)	$\chi^2=0.035$	0.852
Times of thrombectomy passes	3.5 [2–4]	2 [2–3]	Z=0.158	0.187
Tirofiban, n (%)	0 (0)	4 (9.1)	$\chi^2=0.788$	0.375
Recanalization, n (%)	4 (50.0)	41 (93.2)	$\chi^2=10.835$	0.001
24–72 h NIHSS, median [IQR]	37 [26.5–37]	16 [8.3–30.5]	Z=0.003	0.002
Decompressive craniectomy, n (%)	3 (37.5)	7 (15.9)	$\chi^2=2.032$	0.154
Midline shift, n (%)	3 (37.5)	11 (25.0)	$\chi^2=0.538$	0.463
Poor outcome, n (%)	6 (75.0)	21 (47.7)	$\chi^2=2.017$	0.156

SD, standard deviation; IQR, interquartile range; OIT, onset to imaging time; OPT, onset to puncture time; NIHSS, National Institute of Health stroke scale; SMCV-, absent filling of ipsilateral superficial middle cerebral vein; ASPECT, Alberta stroke program early CT score.