

Supplementary Table 1. Characteristics of GSR patients with anterior circulation stroke comparing the anesthesia regimen (n=5,808 patients, unknown in n=256)

Characteristic	Conscious sedation (n=1,572, 27.1%)	General anesthesia (n=3,786, 65.2%)	Conversion (n=194, 3.3%)	P
Age (yr)	73.4±13.0	73.4±13.0	72.0±12.8	0.168
Female sex	799 (50.8)	1,984 (52.4)	98 (50.5)	0.516
Clinical characteristics at admission				
pmRS	0 (0–1) (missing in n=42)	0 (0–1) (missing in n=281)	0 (0–1) (missing in n=13)	0.014
pmRS ≤1	1,222 (77.7)	2,737 (72.3)	150 (77.3)	0.002
Baseline NIHSS	14 (9–17)	15 (10–19)	15 (10–19)	<0.001
Drip and ship	773 (49.2)	1,564 (41.3)	94 (48.5)	<0.001
Admission BP systolic	154.4±27.5	151.1±27.2	154.1±27.6	<0.001
Admission BP diastolic	84.1±16.9	82.2±16.8	85.6±15.9	<0.001
Admission heartrate	81.9±18.2	81.9±19.4	84.3±18.7	0.111
OAC at admission	315 (20.0)	787 (20.8)	32 (16.5)	0.067
Risk factors				
Arterial hypertension	1,165 (74.1)	2,774 (73.3)	139 (71.6)	0.004
Diabetes mellitus	326 (20.7)	792 (20.9)	42 (21.6)	0.459
Hypercholesterolemia	512 (32.6)	1,509 (39.9)	69 (35.6)	<0.001
Current smoking	197 (12.5)	513 (13.5)	35 (18.0)	<0.001
Atrial fibrillation	637 (40.5)	1,550 (40.9)	74 (38.1)	0.082
Imaging data				
ASPECTS	9 (7–10)	9 (7–10)	8 (7–10)	0.010
Tandem lesion	216 (13.7)	598 (15.8)	37 (19.1)	0.020
Right-sided occlusion	791 (50.3)	1,728 (45.7)	85 (43.8)	0.001
Time intervals (min)				
Admission to groin	60.0 (39.0–88.0)	70.0 (47.0–100.0)	60.0 (41.0–81.0)	<0.001
Groin to flow restoration	39.0 (25.0–63.0)	41.0 (26.0–65.0)	64.0 (42.0–100.0)	<0.001
Admission to flow restoration	106.0 (75.0–142.0)	118.0 (88.0–159.0)	129.0 (97.0–179.0)	<0.001
Treatment				
IVT treatment	809 (51.5)	1,910 (50.4)	121 (62.4)	0.005
Additive medication during thrombectomy	313 (19.9)	1,305 (34.5)	44 (22.7)	<0.001
ASA	16 (1.0)	84 (2.2)	5 (2.6)	0.010
Clopidogrel	2 (0.1)	11 (0.3)	1 (0.5)	0.420
Ticagrelor	0 (0)	16 (0.4)	1 (0.5)	0.034
Tirofiban	18 (1.1)	84 (2.2)	8 (4.1)	0.003
Abciximab	12 (0.8)	0 (0)	0 (0)	1.000
Heparin	218 (13.9)	912 (24.1)	24 (12.4)	<0.001
rtPA	43 (2.7)	78 (2.1)	6 (3.1)	0.239
Acute treatment ipsilateral ICA (stenting and/or PTA)	167 (10.6)	526 (13.9)	25 (12.9)	0.015
No. of passages	2.0±1.6	2.2±1.9	2.5±1.9	<0.001
Periprocedural complications				
Device malfunction	230 (14.6)	802 (21.2)	57 (29.4)	<0.001
Dissection, perforation	8 (0.5)	18 (0.5)	2 (1.0)	0.557
Clot migration, embolization	41 (2.6)	105 (2.8)	11 (5.7)	0.049
ICH	54 (3.4)	154 (4.1)	9 (4.6)	0.480
ICH	29 (1.8)	111 (2.9)	12 (6.2)	<0.001

Supplementary Table 1. Continued

Characteristic	Conscious sedation (n=1,572, 27.1%)	General anesthesia (n=3,786, 65.2%)	Conversion (n=194, 3.3%)	P
Vasospasm	56 (3.6)	344 (9.1)	20 (10.3)	<0.001
Other	108 (6.9)	220 (5.8)	22 (11.3)	0.005
Successful reperfusion mTICI 2b/3	1,303 (82.9)	3,192 (84.3)	162 (83.5)	0.117
24-hr Follow-up				
mRS	4 (3–5) (missing in n=86)	5 (3–5) (missing in n=411)	5 (4–5) (missing in n=29)	<0.001
NIHSS	8 (4–16)	11 (5–19)	14 (5–22)	<0.001
Complications	682 (43.4)	1,765 (46.6)	103 (53.1)	0.012
Malignant middle cerebral artery infarction	67 (4.3)	278 (7.3)	15 (7.7)	<0.001
Recurrent stroke	56 (3.6)	203 (5.4)	4 (2.1)	0.004
ICH	184 (11.7)	669 (15.0)	44 (22.7)	<0.001
Groin haematoma	34 (2.2)	55 (1.5)	7 (3.6)	0.384
Groin aneurysma	14 (0.9)	26 (0.7)	1 (0.5)	0.381
Other complications	412 (26.2)	1,055 (27.9)	61 (31.4)	0.104
Hospital stay	9.5±7.4	11.3±9.7	11.2±8.3	<0.001
Discharge				
mRS	4 (2–5) (missing in n=17)	4 (2–5) (missing in n=274)	4 (2–5) (missing in n=9)	<0.001
NIHSS	4 (1–11)	5 (2–12)	6 (2–13)	0.024
Mortality (mRS 6)	180 (11.5)	625 (16.5)	22 (12.0)	<0.001

Values are presented as mean±standard deviation, number (%), or median (interquartile range).

GSR, German Stroke Registry; pmRS, pre-stroke modified Rankin Scale; NIHSS, National Institutes of Health Stroke Scale; BP, blood pressure; OAC, oral anti-coagulation; ASPECTS, Alberta Stroke Program Early CT Score; IVT, intravenous thrombolysis; ASA, acetylsalicylic acid; rtPA, recombinant tissue plasminogen activator; ICA, internal carotid artery; PTA, percutaneous transluminal angioplasty; ICH, intracerebral hemorrhage; mTICI, modified thrombolysis in cerebral infarction; mRS, modified Rankin Scale.