

Table 1 Demographic characteristics, symptoms, and onset-to-door time for patients with acute ischemic stroke

	Overall	Male	Female	P-value
Number of patients	12,167	7973 (65.6)	4190 (34.4)	<0.001
Age (years)	66.06±11.79	64.33±11.65	69.34±11.35	<0.001
Educational level				<0.001
College level and higher	378 (3.1)	312 (3.9)	66 (1.6)	
Vocational school/high school	2438 (20.0)	1829 (22.9)	609 (14.5)	
Middle school/elementary school	8423 (69.2)	5451 (68.4)	2968 (70.8)	
Illiterate	929 (7.6)	382 (4.8)	547 (13.1)	
Living with others at the time of illness onset (%)	11,541 (94.8)	7588 (95.2)	3950 (94.3)	0.039
Patients or family members aware of SEM (%)	2732 (22.5)	1784 (22.4)	945 (22.6)	0.838
Patients or family members have previously browsed the WeChat page on SEM (%)	2546 (20.9)	1674 (21.0)	869 (20.7)	0.762
Distance from onset location and first-visit hospital ≤20 km (%)	9344 (76.8)	6148 (77.1)	3193 (76.2)	0.286
The form of transportation to the hospital				0.454
Self-transported to the hospital (%)	10981 (90.2)	7196 (90.2)	3782 (90.3)	
EMS (%)	890 (7.3)	573 (7.2)	317 (7.6)	
Other forms	297 (2.4)	205 (2.6)	91 (2.2)	
Being transferred between hospitals (%)	1202 (9.9)	814 (10.2)	388 (9.3)	0.102
First-visit department in the hospital				0.002
Neurology emergency (%)	5298 (43.5)	3483 (43.7)	1814 (43.3)	

General emergency (%)	4542 (37.3)	3045 (38.2)	1495 (35.7)	
Neurology outpatient (%)	2214 (18.2)	1375 (17.2)	838 (20.0)	
Neurosurgery outpatient (%)	13 (0.1)	8 (0.1)	5 (0.1)	
Other (%)	101 (0.8)	63 (0.8)	38 (0.9)	
Wake-up stroke (%)	1295 (10.6)	880 (11.0)	414 (9.9)	0.053
Pre-onset mRS score	0.31±0.81	0.29±0.78	0.34±0.87	0.001
mRS score within 24 hours of admission	2.17±1.52	2.10±1.49	2.30±1.58	<0.001
NIHSS score after onset	4.80±5.62	4.56±5.31	5.26±6.14	<0.001
Received IVT (%)	2080 (17.1)	1419 (17.8)	659 (15.7)	0.004
DNT (min)	41.58±29.06	40.82±27.25	43.29±32.59	0.071
Received intravascular thrombolysis or thrombectomy (%)	743 (6.1)	508 (6.4)	235 (5.6)	0.104
DPT (min)	141.61±208.97	150.85±232.16	121.66±145.43	0.077
Successful reperfusion achieved during interventional therapy (mTICI grade 2b or 3) (%)	607 (89.7)	417 (89.7)	190 (89.6)	1
AIS classification in TOAST				<0.001
Large-artery atherosclerosis (%)	5721 (47.0)	3770 (47.3)	1948 (46.5)	
Cardiogenic embolism (%)	740 (6.1)	379 (4.8)	361 (8.6)	
Small-artery occlusion (%)	4684 (38.5)	3151 (39.5)	1532 (36.6)	
Stroke of other determined etiology (%)	731 (6.0)	482 (6.0)	249 (5.9)	
Stroke of undetermined etiology (%)	292 (2.4)	192 (2.4)	100 (2.4)	
Discharge status				0.625

Death (%)	42 (0.3)	25 (0.3)	17 (0.4)	
Self-discharged (%)	11,919 (98.0)	7817 (98.0)	4098 (97.8)	
Transfer to the rehabilitation medicine department (%)	205 (1.7)	131 (1.6)	74 (1.8)	
NIHSS score at discharge	2.00 [4.00–0]	1.00 [4.00–0]	2.00 [4.00–0]	<0.001
Urban scale				0.759
Megacity (%)	613 (5.1)	411 (5.2)	202 (4.8)	
Super-large city (%)	4139 (34.2)	2702 (34.1)	1436 (34.4)	
Large city (%)	2834 (23.4)	1872 (23.6)	961 (23.1)	
Medium-sized city (%)	3546 (29.3)	2301 (29.0)	1243 (29.8)	
Small city (%)	968 (8.0)	641 (8.1)	327 (7.8)	
Dizziness/vertigo	1860 (15.3)	1179 (14.8)	681 (16.3)	0.035
Limb weakness	8317 (68.3)	5556 (69.7)	2758 (65.8)	<0.001
Time of stroke onset				0.227
0:00–5:59 (%)	1378 (11.3)	900 (11.3)	477 (11.4)	
6:00–11:59 (%)	4751 (39.0)	3065 (38.4)	1686 (40.2)	
12:00–17:59 (%)	3656 (30.0)	2424 (30.4)	1231 (29.4)	
18:00–23:59 (%)	2383 (19.6)	1585 (19.9)	796 (19.0)	
ODT ≤3 hours (%)	2566 (21.1)	1700 (21.3)	864 (20.6)	0.38
ODT	697 [1630–240]	660 [1520–234]	720 [2140–240]	0.001
Pre-onset mRS score				0.001
0–1 (%)	11,156 (91.7)	7350 (92.2)	3803 (90.8)	
2–3 (%)	823 (6.8)	523 (6.6)	299 (7.1)	

4–5 (%)	189 (1.6)	101 (1.3)	88 (2.1)	
NIHSS score after onset				<0.001
0–4 (%)	8080 (66.4)	5402 (67.7)	2674 (63.8)	
5–15 (%)	3331 (27.4)	2154 (27.0)	1177 (28.1)	
16–42 (%)	757 (6.2)	418 (5.2)	339 (8.1)	

Values are presented as n (%), mean±standard deviation, or median [Q3–Q1].

SEM, stroke emergency maps; EMS, emergency medical service; NIHSS, National Institutes of Health Stroke Scale; IVT, intravenous thrombolysis; DNT, door-to-needle time; DPT, door-to-puncture time; mTICI, modified Thrombolysis in Cerebral Infarction; AIS, acute ischemic stroke; TOAST, Trial of Org 10172 in Acute Stroke Treatment; ODT, onset-to-door time; mRS, Modified Rankin Scale.