

**Trends and Predictors of Myocardial Infarction or Vascular Death after
Ischemic Stroke or TIA in China, 2007-2018: insights from China National
Stroke Registries**

Supplementary Material

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Table S1. Baseline Characteristics between two groups in CNSR-III

	All patients (n=15166)	MI or vascular death		p Value
		No (n=14915)	Yes (n=251)	
Demographics				
Age, y	62.2±11.3	62.2±11.3	67.3±11.6	<.001
male sex	10364 (68.3)	10194 (68.4)	170 (67.7)	0.835
BMI, kg/m ²	24.7±3.3	24.7±3.3	24.0±3.1	0.003
Ethnicity (non-Han)	440 (2.9)	432 (2.9)	8 (3.2)	0.785
Current smoking	4752 (31.3)	4688 (31.4)	64 (25.5)	0.034
Regular drinking	5715 (37.7)	5650 (37.9)	65 (25.9)	0.001
Education				0.235
Elementary or below	4292 (28.3)	4210 (28.2)	82 (32.7)	
Middle school	4405 (29.1)	4338 (29.1)	67 (26.7)	
High school or above	4282 (28.2)	4221 (28.3)	61 (24.3)	
Unknown	2187 (14.4)	2146 (14.4)	41 (16.3)	
Insurance				0.856
Urban basic health	9076 (59.8)	8923 (59.8)	153 (61.0)	
Rural cooperative	5011 (33.0)	4932 (33.1)	79 (31.5)	
Commercial/other	169 (1.1)	165 (1.1)	4 (1.6)	
Self-payment	910 (6.0)	895 (6.0)	15 (6.0)	
Medical history				
Previous stroke/TIA	3675 (24.2)	3582 (24.0)	93 (37.1)	<.001
Coronary artery disease	1608 (10.6)	1550 (10.5)	48 (19.2)	<.001
Myocardial infarction	292 (1.9)	279 (1.9)	13 (5.2)	<.001
Previous PCI/ CABG	1238 (8.2)	1194 (8.0)	44 (16.7)	<.001
Hypertension	9494 (62.6)	9334 (62.6)	160 (63.7)	0.706
Diabetes	3510 (23.1)	3443 (23.1)	67 (26.7)	0.179
Dyslipidemia	1191 (7.9)	1179 (7.9)	12 (4.8)	0.068
Atrial fibrillation	1019 (6.7)	970 (6.5)	49 (19.5)	<.001
Peripheral artery disease	118 (0.8)	110 (0.7)	8 (3.2)	0.001
Deep venous thrombosis	44 (0.3)	44 (0.3)	0 (0)	1.000

Values are presented as n (%) unless otherwise indicated. BMI = body mass index; PCI = percutaneous coronary intervention; CABG = coronary artery bypass grafting; Other abbreviations as in Table 1.

Table S2. Stroke presentation and management between two groups in CNSR-III

	All patients (n=15166)	MI or vascular death		p Value
		No (n=14915)	Yes (n=251)	
Stroke presentation				
Hours from symptom onset to arrival, median (IQR)	15.0 (3.8-44.8)	15.0 (3.8-44.9)	15.9 (3.5-43.0)	0.622
EMS transportation	1596 (10.5)	1560 (10.5)	36 (13.3)	0.047
NIHSS on admission	3 (1-6)	3 (1-6)	5 (2-10)	<.001
NIHSS >6 on admission	3103 (20.5)	2999 (20.1)	104 (41.4)	<.001
mRS on admission	2 (1-3)	2 (1-3)	3 (1-4)	<.001
mRS >2 on admission	4803 (31.7)	4674 (31.3)	129 (51.4)	<.001
Final diagnosis				0.006
Stroke	14146 (93.3)	13891 (93.2)	255 (97.7)	
TIA	1020 (6.7)	1014 (6.8)	6 (2.4)	
TOAST classification				<.001
Large artery atherosclerosis	3856 (25.4)	3766 (25.3)	90 (35.9)	
Cardioembolism	917 (6.1)	889 (6.0)	28 (11.2)	
Small vessel occlusion	3165 (20.9)	3138 (21.0)	27 (10.8)	
Other determined	182 (1.2)	179 (1.2)	3 (1.2)	
Undetermined pathogenesis	7046 (46.5)	6943 (46.6)	103 (41.0)	
Performance Measures				
Evaluated by stroke specialist ≤24h	4239 (28.0)	4159 (27.9)	80 (31.9)	0.163
Intravenous rt-PA usage	1303 (8.6)	1284 (8.6)	19 (7.6)	0.560
Hours from arrival to rt-PA, median (IQR)	1.0 (0.5-1.5)	1.0 (0.5-1.5)	1.2 (1.0-1.5)	0.105
Endovascular Therapy	95 (0.6)	88 (0.6)	7 (2.8)	<.001
Mechanical thrombectomy	39 (0.3)	36 (0.2)	3 (1.2)	0.026
Arterial thrombolysis	38 (0.3)	33 (0.2)	5 (2.0)	<.001
Intracranial Stent Therapy	31 (0.2)	30 (0.2)	1 (0.4)	0.404
Carotid endarterectomy	7 (0.05)	7 (0.05)	0 (0)	1.000
Carotid artery stenting	44 (0.3)	42 (0.3)	2 (0.8)	0.155

Values are presented as n (%) unless otherwise indicated. TOAST = Trial of Org 10712 in acute stroke treatment; rt-PA = recombinant tissue plasminogen activator; TIA = transient ischemic attack; mRS = modified Rankin scale; EMS = emergency medical service.

Figure S1. Cumulative incidence of 1-year composite outcomes in 2015-2018 cohort