

Supplemental Table. Stroke Mimics with Documented Final Non-Stroke Diagnosis and Stroke Mimics with Final Non-Stroke Diagnosis Missing or Unknown

Variable	Stroke mimics with documented non-stroke diagnosis N=974	Stroke mimics with final non-stroke diagnosis missing or unknown N=1543	p-value
Demographics			
Age, median (IQR), y	52 (43-63)	55 (45-68)	<0.001
Female, No. (%)	652 (66.9)	893 (57.9)	<0.001
Race/ethnicity			0.13
Non-Hispanic white	571 (58.6)	852 (55.2)	
Non-Hispanic black	235 (24.1)	378 (24.5)	
Hispanic	93 (9.5)	150 (9.7)	
Asian	18 (1.8)	40 (2.6)	
Other	50 (5.1)	113 (7.3)	
Insurance			0.04
Private	446 (45.8)	609 (39.5)	
Medicare	148 (15.2)	284 (18.4)	
Medicaid	171 (17.6)	271 (17.6)	
Self-pay	84 (8.6)	121 (7.8)	
Medical history			
Atrial fibrillation/flutter	25 (2.6)	61 (4.0)	0.05
Prosthetic heart valve	4 (0.4)	5 (0.3)	0.75
Previous stroke/transient ischemic attack	330 (33.9)	457 (29.6)	0.05
Carotid stenosis	9 (0.9)	26 (1.7)	0.10
Coronary artery disease/prior myocardial infarction	104 (10.7)	220 (14.3)	0.005
Heart failure	32 (3.3)	69 (4.5)	0.11
Hypertension	515 (52.9)	877 (56.8)	0.008
Dyslipidemia	313 (32.1)	507 (32.9)	0.46
Peripheral vascular disease	14 (1.4)	28 (1.8)	0.43

Diabetes mellitus	247 (25.4)	422 (27.3)	0.15
Smoker	184 (18.9)	334 (21.6)	0.05
Clinical characteristics			
Arrival by emergency medical services (EMS)	589 (60.5)	965 (62.5)	0.10
Off-hour admission	451 (46.3)	723 (46.9)	0.79
Patient location when stroke symptoms discovered, healthcare facility	51 (5.2)	79 (5.1)	0.97
Onset to arrival time, median (IQR), minutes	66 (41-109)	66 (42-106)	0.91
Ambulatory status prior to current event, with assistance/unable to ambulate	24 (2.4)	65 (4.2)	0.03
Ambulatory status on admission, with assistance/unable to ambulate	275 (28.3)	456 (29.6)	0.44
Initial exam findings			
No neurological signs/symptoms	1 (0.1)	9 (0.6)	0.05
Weakness/paralysis	579 (59.4)	832 (53.9)	0.05
Altered states of consciousness	146 (15.0)	237 (15.4)	0.44
Aphasia	388 (39.8)	527 (34.2)	0.02
Other neurological signs/symptoms	295 (30.3)	394 (25.5)	0.04
NIHSS, median (IQR)	7 (4-11)	6 (4-10)	0.01
Systolic blood pressure, median (IQR), mmHg	146 (131-165)	147 (131-169)	0.53
Heart rate, median (IQR), bpm	84 (74-96)	84 (73-95)	0.40
Door-to-needle time, median (IQR), min	53 (41-72)	57 (44-80)	<0.001
Medications prior to admission			
Antiplatelets or anticoagulants	337 (34.6)	575 (37.3)	0.07
Antihypertensive	427 (43.8)	689 (44.7)	0.39
Cholesterol reducer	308 (31.6)	511 (33.1)	0.38
Diabetic medication	182 (18.7)	313 (20.3)	0.19
Hospital characteristics			

Number of beds, median (IQR)	506 (302-708)	487 (320-682)	0.89
Annual ischemic stroke volume, median (IQR)	257 (205-412)	258 (202-408)	0.62
Hospital type, academic	801 (82.2)	1,308 (84.8)	0.12
Primary stroke center	640 (65.7)	1,061 (68.8)	0.11
Annual IV tPA cases, median (IQR)	35 (24-53)	35 (25-47)	0.55
Rural			
Geographic region			<0.001
Northeast	180 (18.5)	332 (21.5)	
Midwest	114 (11.7)	250 (16.2)	
South	414 (42.5)	517 (33.5)	
West	266 (27.3)	444 (28.8)	
Calendar year			0.13
2010	0 (0.0)	48 (3.1)	
2011	19 (2.0)	45 (2.9)	
2012	57 (5.9)	77 (5.0)	
2013	82 (8.4)	113 (7.3)	
2014	93 (9.5)	175 (11.3)	
2015	150 (15.4)	223 (14.5)	
2016	287 (29.5)	408 (26.4)	
2017	286 (29.4)	454 (29.4)	
Safety endpoints			
Symptomatic intracranial hemorrhage	2 (0.2)	9 (0.6)	0.14
Life-threatening or serious systemic hemorrhage	1 (0.1)	0 (0.0)	0.22
Other serious complication	6 (0.6)	20 (1.3)	0.08
Any tPA complication	9 (0.9)	29 (1.9)	0.04
In-hospital outcomes			
In-hospital mortality	3 (0.3)	18 (1.2)	0.02
Discharge to home	852 (87.5)	1,257 (81.5)	<0.001

Discharge to hospice	4 (0.4)	12 (0.8)	0.26
Discharge to SNF	60 (6.2)	129 (8.4)	0.0414
Discharge to IRF	47 (4.8)	110 (7.1)	0.0200
Independent ambulation at discharge	662 (83.6)	880 (75.3)	<.0001
