

SUPPLEMENTAL MATERIAL

Table S1 Patient and hospital characteristics in stroke patients eligible for EVT:

Variable	Overall N=302,965	EVT N=42,422	No EVT N=260,543	P Value	% Std. Diff.
Patient Demographics					
Age*	75 (63 - 85)	72 (61 - 81)	76 (63 - 85)	<.0001	24.6
Female	163,951 (54.1)	21,634 (51.0)	142,317 (54.6)	<.0001	7.3
Race/Ethnicity				<.0001	10.2
' White	211,349 (69.8)	29,429 (69.4)	181,920 (69.8)		
' Black	48,532 (16.0)	6,214 (14.6)	42,318 (16.2)		
' Hispanic (any race)	21,503 (7.1)	2,887 (6.8)	18,616 (7.1)		
' Asian	8,631 (2.8)	1,342 (3.2)	7,289 (2.8)		
' Other (includes UTD)	12,950 (4.3)	2,550 (6.0)	10,400 (4.0)		
Health Insurance Status				<.0001	20.6
' Private/VA/Champus/Other Insurance	106,551 (35.2)	16,904 (39.8)	89,647 (34.4)		
' Medicaid	30,873 (10.2)	4,091 (9.6)	26,782 (10.3)		
' Medicare	105,985 (35.0)	15,094 (35.6)	90,891 (34.9)		
' Self Pay/No Insurance	11,330 (3.7)	1,946 (4.6)	9,384 (3.6)		
Medical History					
Atrial Fibrillation/Flutter	88,274 (29.1)	15,066 (35.5)	73,208 (28.1)	<.0001	16.0
Prosthetic Heart Valve	4,559 (1.5)	916 (2.2)	3,643 (1.4)	<.0001	5.8
Previous Stroke/TIA	101,855 (33.6)	9,078 (21.4)	92,777 (35.6)	<.0001	31.9
CAD/Prior MI	79,455 (26.2)	10,134 (23.9)	69,321 (26.6)	<.0001	6.3
Carotid Stenosis	9,927 (3.3)	1,079 (2.5)	8,848 (3.4)	<.0001	5.0
Diabetes Mellitus	93,480 (30.9)	10,556 (24.9)	82,924 (31.8)	<.0001	15.5
Peripheral Vascular Disease (PVD)	13,443 (4.4)	1,556 (3.7)	11,887 (4.6)	<.0001	4.5
Hypertension	232,053 (76.6)	30,110 (71.0)	201,943 (77.5)	<.0001	15.0
Smoker	46,496 (15.3)	6,983 (16.5)	39,513 (15.2)	<.0001	3.6
Dyslipidemia	137,991 (45.5)	17,879 (42.1)	120,112 (46.1)	<.0001	8.0
Heart Failure	39,749 (13.1)	5,664 (13.4)	34,085 (13.1)	0.1277	0.8
Chronic Renal Insufficiency	25,398 (8.4)	2,787 (6.6)	22,611 (8.7)	<.0001	8.0
Ambulatory status prior to the current event				<.0001	32.1
' Able to ambulate independently	186,033 (86.8)	30,193 (94.8)	155,840 (85.3)		
' With assistance (from person)	16,347 (7.6)	1,027 (3.2)	15,320 (8.4)		
' Unable to ambulate	12,059 (5.6)	627 (2.0)	11,432 (6.3)		
Arrival Information					
Ambulatory status on Admission				<.0001	33.3
' Able to ambulate independently	23,189 (14.3)	2,007 (8.8)	21,182 (15.2)		
' With assistance (from person)	38,032 (23.5)	3,602 (15.8)	34,430 (24.7)		
' Unable to ambulate	100,925 (62.2)	17,178 (75.4)	83,747 (60.1)		
Patient location when stroke symptoms discovered				<.0001	29.8
' Not in a healthcare setting	263,416 (87.6)	38,659 (91.9)	224,757 (86.9)		
' Another acute care facility	5,239 (1.7)	1,494 (3.6)	3,745 (1.4)		
' Chronic health care facility	28,561 (9.5)	1,542 (3.7)	27,019 (10.4)		
' Outpatient healthcare setting	3,615 (1.2)	384 (0.9)	3,231 (1.2)		
Arrival Mode: EMS	212,872 (71.5)	24,114 (56.9)	188,758 (73.9)	<.0001	36.3
Onset to Arrival Times, min*	99 (51 - 200)	130 (56 - 215)	95 (50 - 196)	<.0001	16.6

Variable	Overall N=302,965	EVT N=42,422	No EVT N=260,543	P Value	% Std. Diff.
Onset to Arrival Times, min, categories				<.0001	
' <31	26,170 (8.6)	2,989 (7.0)	23,181 (8.9)		
' >=31 and <61	72,188 (23.8)	8,728 (20.6)	63,460 (24.4)		
' >=61 and <91	44,199 (14.6)	4,966 (11.7)	39,233 (15.1)		
' >=91 and <121	29,109 (9.6)	3,467 (8.2)	25,642 (9.8)		
' >=121 and <181	43,690 (14.4)	7,524 (17.7)	36,166 (13.9)		
' >=181 and <241	36,231 (12.0)	6,975 (16.4)	29,256 (11.2)		
' >=241	51,378 (17.0)	7,773 (18.3)	43,605 (16.7)		
Off-Hour Arrival (Regular Hour: 7A-6P, M-F, non-holiday)	175,004 (57.8)	23,878 (56.3)	151,126 (58.0)	<.0001	3.5
Initial NIHSS Score (0-42)*	13 (8 - 19)	18 (13 - 22)	12 (8 - 18)	<.0001	66.4
Measurements					
Heart Rate (30-200), bpm*	80 (70 - 93)	80 (70 - 93)	80 (70 - 93)	0.0569	0.1
SBP (50-250), mm Hg*	153 (135 - 174)	148 (131 - 168)	154 (136 - 176)	<.0001	20.7
DBP (20-200), mm Hg*	83 (72 - 96)	82 (71 - 95)	84 (72 - 96)	<.0001	6.2
BMI*	27 (24 - 32)	28 (24 - 32)	27 (23 - 32)	<.0001	11.8
Medications Prior to Admission					
Antiplatelets	136,196 (51.1)	15,828 (42.7)	120,368 (52.5)	<.0001	19.7
Anticoagulants	42,308 (23.3)	8,006 (26.7)	34,302 (22.6)	<.0001	9.5
Antihypertensives	177,098 (70.3)	24,057 (64.0)	153,041 (71.4)	<.0001	15.9
Cholesterol-Reducers	138,611 (45.9)	17,245 (40.7)	121,366 (46.7)	<.0001	12.2
Diabetic Medications	55,670 (23.3)	6,268 (17.6)	49,402 (24.2)	<.0001	16.3
Initial exam findings					
Weakness/Paresis	181,828 (89.5)	27,386 (93.1)	154,442 (88.9)	<.0001	14.8
Altered Level of Consciousness	70,691 (34.8)	11,528 (39.2)	59,163 (34.1)	<.0001	10.7
Aphasia	147,077 (72.4)	22,785 (77.5)	124,292 (71.6)	<.0001	13.6
Other neurological signs/symptoms	75,506 (37.2)	13,026 (44.3)	62,480 (36.0)	<.0001	17.0
No neurological signs/symptoms	199 (0.1)	10 (0.0)	189 (0.1)	0.0001	2.8
ND	659 (0.3)	122 (0.4)	537 (0.3)	0.0032	1.8
Received IV t-PA					
IV t-PA initiated at this hospital	131,214 (43.3)	16,969 (40.0)	114,245 (43.9)	<.0001	7.8
IV t-PA at an outside hospital	33,979 (21.0)	10,731 (37.3)	23,248 (17.4)	<.0001	45.8
IV t-PA at this hospital or at an outside hospital	164,827 (54.42)	27,593 (65.05)	137,234 (52.69)	<.0001	25.3
Hospital Characteristics					
Number of Beds*	411 (270 - 639)	557 (393 - 773)	385 (256 - 607)	<.0001	63.3
Rural Location	7,917 (2.6)	138 (0.3)	7,779 (3.0)	<.0001	21.0
Stroke Center Status				<.0001	53.7
' Comprehensive Stroke Center (CSC)	67,204 (22.2)	17,893 (42.2)	49,311 (18.9)		
' Primary Stroke Center (PSC)	166,229 (54.9)	18,756 (44.2)	147,473 (56.6)		
' Neither CSC or PSC	69,532 (23.0)	5,773 (13.6)	63,759 (24.5)		
Academic Hospital	241,525 (79.7)	38,848 (91.6)	202,677 (77.8)	<.0001	39.0
Region				<.0001	3.9
' Northeast	63,849 (21.1)	8,887 (20.9)	54,962 (21.1)		
' Midwest	59,459 (19.6)	8,851 (20.9)	50,608 (19.4)		
' South	120,002 (39.6)	16,680 (39.3)	103,322 (39.7)		
' West	59,655 (19.7)	8,004 (18.9)	51,651 (19.8)		

Variable	Overall N=302,965	EVT N=42,422	No EVT N=260,543	P Value	% Std. Diff.
Annual Volume of IS Admissions*	290 (198 - 439)	388 (276 - 528)	272 (188 - 413)	<.0001	63.3
Annual Volume of IV t-PA*	31 (19 - 44)	39 (28 - 53)	29 (18 - 42)	<.0001	56.5
Annual Volume of EVT*	35 (0 - 79)	77 (48 - 117)	27 (0 - 69)	<.0001	108.9

Variables with * are continuous variables and presented as median (IQR); other variables are categorical variables and presented as count (percent). ** Annual IV tPA volume was calculated using 2003-2019 data, whereas annual EVT volume was calculated as the total number of EVT's administered in each site within 2018 Q3 - 2019 Q2 in the starting population. IS= Ischemic Stroke; EVT= Endovascular Therapy; UTD= Unable to Determine; CAD= Coronary Artery Disease; MI= Myocardial Infarction; PVD= Peripheral Vascular Disease; TIA= Transient Ischemic Attack; SBP= Systolic Blood Pressure; DBP= Diastolic Blood Pressure; BMI= Body Mass Index; EMS= Emergency Medical Services; NIHSS= NIH Stroke Scale.

Table S2 Baseline characteristics by race/ethnicity

Variable	Overall N=42,422	White N=29,429	Black N=6,214	Hispanic N=2,887	Asian N=1,342	Other N=2,550	P Value	Standardized Differences: White vs ...			
								Black	Hispanic	Asian	Other
Patient Demographics											
Age*	72 (61 - 81)	74 (63 - 83)	64 (53 - 75)	70 (58 - 80)	72 (62 - 81)	70 (59 - 81)	<.0001	58.3	22.0	9.3	18.8
Female	21,634 (51.0)	15,081 (51.2)	3,148 (50.7)	1,411 (48.9)	707 (52.7)	1,287 (50.5)	0.0907	1.2	4.7	2.9	1.5
Health Insurance Status											
' Private/VA/Champus/Other Insurance	16,904 (39.8)	12,400 (42.1)	2,232 (35.9)	845 (29.3)	524 (39.0)	903 (35.4)	<.0001	45.2	53.2	43.2	31.5
' Medicaid	4,091 (9.6)	1,928 (6.6)	1,136 (18.3)	467 (16.2)	243 (18.1)	317 (12.4)					
' Medicare	15,094 (35.6)	11,404 (38.8)	1,701 (27.4)	817 (28.3)	350 (26.1)	822 (32.2)					
' Self Pay/No Insurance	1,946 (4.6)	964 (3.3)	458 (7.4)	276 (9.6)	80 (6.0)	168 (6.6)					
Year of Stroke Admission											
' 2012	1,267 (3.0)	927 (3.1)	164 (2.6)	77 (2.7)	47 (3.5)	52 (2.0)	<.0001	7.7	8.4	8.7	14.8
' 2013	1,835 (4.3)	1,330 (4.5)	229 (3.7)	147 (5.1)	57 (4.2)	72 (2.8)					
' 2014	2,320 (5.5)	1,695 (5.8)	292 (4.7)	161 (5.6)	59 (4.4)	113 (4.4)					
' 2015	4,715 (11.1)	3,285 (11.2)	698 (11.2)	302 (10.5)	145 (10.8)	285 (11.2)					
' 2016	6,423 (15.1)	4,447 (15.1)	930 (15.0)	433 (15.0)	194 (14.5)	419 (16.4)					
' 2017	8,875 (20.9)	6,182 (21.0)	1,363 (21.9)	542 (18.8)	281 (20.9)	507 (19.9)					
' 2018	11,122 (26.2)	7,556 (25.7)	1,687 (27.1)	789 (27.3)	382 (28.5)	708 (27.8)					
' 2019	5,865 (13.8)	4,007 (13.6)	851 (13.7)	436 (15.1)	177 (13.2)	394 (15.5)					
Medical History											
Atrial Fibrillation/Flutter	15,066 (35.5)	11,268 (38.3)	1,571 (25.3)	889 (30.8)	490 (36.5)	848 (33.3)	<.0001	28.2	15.8	3.7	10.5
Prosthetic Heart Valve	916 (2.2)	666 (2.3)	107 (1.7)	70 (2.4)	23 (1.7)	50 (2.0)	0.0435	3.9	1.1	3.9	2.1
Previous Stroke/TIA	9,078 (21.4)	6,136 (20.9)	1,542 (24.8)	628 (21.8)	290 (21.6)	482 (18.9)	<.0001	9.5	2.2	1.9	4.9
CAD/Prior MI	10,134 (23.9)	7,428 (25.2)	1,334 (21.5)	620 (21.5)	235 (17.5)	517 (20.3)	<.0001	8.9	8.9	18.9	11.9
Carotid Stenosis	1,079 (2.5)	882 (3.0)	85 (1.4)	43 (1.5)	16 (1.2)	53 (2.1)	<.0001	11.2	10.2	12.6	5.8
Diabetes Mellitus	10,556 (24.9)	6,566 (22.3)	1,953 (31.4)	1,043 (36.1)	358 (26.7)	636 (24.9)	<.0001	20.7	30.7	10.2	6.2
Peripheral Vascular Disease (PVD)	1,556 (3.7)	1,181 (4.0)	207 (3.3)	94 (3.3)	19 (1.4)	55 (2.2)	<.0001	3.6	4.0	16.0	10.8
Hypertension	30,110 (71.0)	20,654 (70.2)	4,739 (76.3)	2,034 (70.5)	957 (71.3)	1,726 (67.7)	<.0001	13.8	0.6	2.5	5.4
Smoker	6,983 (16.5)	4,856 (16.5)	1,366 (22.0)	291 (10.1)	94 (7.0)	376 (14.7)	<.0001	13.9	19.0	29.8	4.8
Dyslipidemia	17,879 (42.1)	12,998 (44.2)	2,237 (36.0)	1,101 (38.1)	566 (42.2)	977 (38.3)	<.0001	16.7	12.3	4.0	11.9
Heart Failure	5,664 (13.4)	3,729 (12.7)	1,236 (19.9)	303 (10.5)	111 (8.3)	285 (11.2)	<.0001	19.6	6.8	14.4	4.6
Chronic Renal Insufficiency	2,787 (6.6)	1,841 (6.3)	548 (8.8)	178 (6.2)	78 (5.8)	142 (5.6)	<.0001	9.7	0.4	1.9	2.9
Ambulatory status prior to the current event											
' Able to ambulate independently (no help from another person) w/ or w/o devic	30,193 (94.8)	21,143 (94.8)	4,399 (95.5)	1,978 (94.4)	944 (94.9)	1,729 (94.2)	0.0061	6.6	2.1	5.5	2.6
' With assistance (from person)	1,027 (3.2)	743 (3.3)	105 (2.3)	72 (3.4)	38 (3.8)	69 (3.8)					
' Unable to ambulate	627 (2.0)	428 (1.9)	102 (2.2)	46 (2.2)	13 (1.3)	38 (2.1)					
Arrival Information											
Ambulatory status on Admission											
' Able to ambulate independently (no help from another person) w/ or w/o devic	2,007 (8.8)	1,348 (8.4)	285 (9.3)	177 (10.9)	68 (9.3)	129 (9.9)	0.0189	4.0	8.4	3.8	6.0
' With assistance (from person)	3,602 (15.8)	2,563 (16.0)	458 (14.9)	253 (15.5)	110 (15.0)	218 (16.8)					

Variable	Overall N=42,422	White N=29,429	Black N=6,214	Hispanic N=2,887	Asian N=1,342	Other N=2,550	P Value	Standardized Differences: White vs ...			
								Black	Hispanic	Asian	Other
' Unable to ambulate	17,178 (75.4)	12,138 (75.6)	2,335 (75.9)	1,199 (73.6)	553 (75.6)	953 (73.3)	<.0001	13.8	11.8	20.3	6.9
Patient location when stroke symptoms discovered											
' Not in a healthcare setting	38,659 (91.9)	26,586 (91.1)	5,770 (93.6)	2,695 (93.8)	1,271 (95.4)	2,337 (92.3)					
' Another acute care facility	1,494 (3.6)	1,091 (3.7)	192 (3.1)	77 (2.7)	35 (2.6)	99 (3.9)					
' Chronic health care facility	1,542 (3.7)	1,252 (4.3)	126 (2.0)	72 (2.5)	16 (1.2)	76 (3.0)	<.0001	11.2	12.8	12.9	19.9
' Outpatient healthcare setting	384 (0.9)	250 (0.9)	75 (1.2)	28 (1.0)	10 (0.8)	21 (0.8)					
Arrival Mode: EMS	24,114 (56.9)	16,481 (56.1)	3,821 (61.6)	1,798 (62.4)	837 (62.4)	1,177 (46.2)					
Ambulatory Status at Admission											
' Able to ambulate independently	2,007 (8.8)	1,348 (8.4)	285 (9.3)	177 (10.9)	68 (9.3)	129 (9.9)	<.0001	9.9	16.4	17.7	12.9
' With assistance from person	3,602 (15.8)	2,563 (16.0)	458 (14.9)	253 (15.5)	110 (15.0)	218 (16.8)					
' Unable to ambulate	17,178 (75.4)	12,138 (75.6)	2,335 (75.9)	1,199 (73.6)	553 (75.6)	953 (73.3)					
Onset to Arrival Times, min*	130 (56 - 215)	134 (59 - 215)	116 (50 - 210)	107 (48 - 200)	104 (47 - 203)	155 (65 - 231)					
Onset to Arrival Times, min, categories							<.0001	31.1	40.7	62.5	43.5
' <31	2,989 (7.0)	1,901 (6.5)	541 (8.7)	284 (9.8)	115 (8.6)	148 (5.8)	0.6163	1.6	1.3	1.3	1.3
' >=31 and <61	8,728 (20.6)	5,768 (19.6)	1,434 (23.1)	719 (24.9)	359 (26.8)	448 (17.6)					
' >=61 and <91	4,966 (11.7)	3,503 (11.9)	740 (11.9)	332 (11.5)	152 (11.3)	239 (9.4)					
' >=91 and <121	3,467 (8.2)	2,537 (8.6)	472 (7.6)	199 (6.9)	92 (6.9)	167 (6.5)					
' >=121 and <181	7,524 (17.7)	5,342 (18.2)	961 (15.5)	490 (17.0)	223 (16.6)	508 (19.9)					
' >=181 and <241	6,975 (16.4)	4,967 (16.9)	950 (15.3)	392 (13.6)	194 (14.5)	472 (18.5)					
' >=241	7,773 (18.3)	5,411 (18.4)	1,116 (18.0)	471 (16.3)	207 (15.4)	568 (22.3)					
Off-Hour Arrival (Regular Hour: 7AM-6PM, M-F, non-holiday)	23,878 (56.3)	16,548 (56.2)	3,544 (57.0)	1,605 (55.6)	763 (56.9)	1,418 (55.6)					
Initial NIHSS Score (0-42)*	18 (13 - 22)	17 (13 - 22)	18 (13 - 22)	18 (13 - 23)	19 (13 - 23)	18 (13 - 23)	<.0001	2.6	7.5	15.9	5.5
Measurements											
Heart Rate (30-200), bpm*	80 (70 - 93)	80 (69 - 93)	82 (71 - 94)	81 (70 - 95)	79 (69 - 93)	80 (70 - 94)	<.0001	6.4	7.4	0.8	1.2
SBP (50-250), mm Hg*	148 (131 - 168)	148 (131 - 167)	149 (131 - 170)	149 (132 - 167)	148 (131 - 169)	147 (130 - 167)	0.0164	4.7	3.4	3.4	3.7
DBP (20-200), mm Hg*	82 (71 - 95)	81 (71 - 94)	86 (74 - 99)	82 (71 - 95)	83 (72 - 95)	81 (70 - 93)	<.0001	25.8	4.1	7.0	2.0
BMI*	28 (24 - 32)	28 (24 - 32)	29 (25 - 34)	28 (24 - 32)	25 (22 - 27)	28 (24 - 32)	<.0001	13.8	0.7	64.6	1.6
Medications Prior to Admission											
Antiplatelets	15,828 (42.7)	11,580 (45.1)	2,095 (38.1)	903 (36.2)	422 (36.5)	828 (36.9)	<.0001	14.4	18.3	17.6	16.8
Anticoagulants	8,006 (26.7)	5,694 (28.0)	1,092 (23.8)	519 (24.0)	237 (23.7)	464 (24.3)	<.0001	9.5	9.1	9.8	8.5
Antihypertensives	24,057 (64.0)	16,972 (65.4)	3,528 (62.6)	1,522 (59.0)	729 (60.2)	1,306 (58.1)	<.0001	5.9	13.4	10.8	15.0
Cholesterol-Reducers	17,245 (40.7)	12,359 (42.0)	2,327 (37.5)	1,089 (37.8)	523 (39.1)	947 (37.2)	<.0001	9.3	8.7	6.0	9.9
Diabetic Medications	6,268 (17.6)	4,036 (16.5)	1,076 (20.0)	588 (24.0)	201 (17.4)	367 (17.3)	<.0001	9.0	18.6	2.3	2.0
Initial exam findings											
Weakness/Paresis	27,386 (93.1)	19,149 (93.6)	4,102 (92.4)	1,793 (93.1)	820 (88.7)	1,522 (91.4)	<.0001	4.9	2.1	17.3	8.6
Altered Level of Consciousness	11,528 (39.2)	7,858 (38.4)	1,720 (38.7)	892 (46.3)	418 (45.2)	640 (38.4)	<.0001	0.7	16.0	13.9	0.0
Aphasia	22,785 (77.5)	15,996 (78.2)	3,341 (75.2)	1,504 (78.1)	694 (75.1)	1,250 (75.0)	<.0001	7.0	0.3	7.3	7.5
Other neurological signs/symptoms	13,026 (44.3)	9,045 (44.2)	2,030 (45.7)	887 (46.1)	366 (39.6)	698 (41.9)	0.0011	3.0	3.7	9.4	4.7
No neurological signs/symptoms	10 (0.0)	7 (0.0)	1 (0.0)	1 (0.1)	1 (0.1)	0 (0.0)	0.6593	0.7	0.9	2.8	2.6
ND	122 (0.4)	54 (0.3)	47 (1.1)	6 (0.3)	4 (0.4)	11 (0.7)	<.0001	9.8	0.9	2.9	5.8

Variable	Overall N=42,422	White N=29,429	Black N=6,214	Hispanic N=2,887	Asian N=1,342	Other N=2,550	P Value	Standardized Differences: White vs ...			
								Black	Hispanic	Asian	Other
Reperfusion											
IV t-PA initiated at this hospital?	16,969 (40.0)	11,330 (38.5)	2,817 (45.3)	1,329 (46.1)	618 (46.1)	875 (34.3)	<.0001	13.9	15.4	15.4	8.7
IV t-PA at an outside hospital?	10,731 (37.3)	7,593 (37.7)	1,399 (34.6)	616 (33.3)	273 (32.5)	850 (46.0)	<.0001	6.3	9.0	10.9	17.0
Hospital Characteristics											
Number of Beds*	557 (393 - 773)	554 (384 - 742)	648 (458 - 893)	539 (393 - 720)	458 (349 - 648)	595 (393 - 817)	<.0001	28.7	3.0	29.2	10.1
Rural Location	138 (0.3)	128 (0.4)	2 (0.0)	1 (0.0)	1 (0.1)	6 (0.2)	<.0001	8.4	8.3	7.2	3.5
Stroke Center Status							<.0001	19.7	12.2	9.4	14.5
' Comprehensive Stroke Center (CSC)	17,893 (42.2)	12,055 (41.0)	3,122 (50.2)	1,017 (35.2)	581 (43.3)	1,118 (43.8)					
' Primary Stroke Center (PSC)	18,756 (44.2)	13,448 (45.7)	2,280 (36.7)	1,476 (51.1)	554 (41.3)	998 (39.1)					
' Neither CSC or PSC	5,773 (13.6)	3,926 (13.3)	812 (13.1)	394 (13.6)	207 (15.4)	434 (17.0)					
Academic Hospital	38,848 (91.6)	26,798 (91.1)	5,839 (94.0)	2,640 (91.4)	1,194 (89.0)	2,377 (93.2)	<.0001	11.1	1.4	7.0	8.0
Region							<.0001	47.9	55.8	82.9	31.0
' Northeast	8,887 (20.9)	6,322 (21.5)	1,038 (16.7)	452 (15.7)	282 (21.0)	793 (31.1)					
' Midwest	8,851 (20.9)	7,005 (23.8)	1,101 (17.7)	208 (7.2)	124 (9.2)	413 (16.2)					
' South	16,680 (39.3)	10,768 (36.6)	3,612 (58.1)	1,315 (45.5)	238 (17.7)	747 (29.3)					
' West	8,004 (18.9)	5,334 (18.1)	463 (7.5)	912 (31.6)	698 (52.0)	597 (23.4)					
Annual Volume of IS Admissions*	388 (276 - 528)	395 (281 - 528)	382 (284 - 541)	330 (241 - 468)	330 (255 - 443)	354 (276 - 503)	<.0001	0.7	31.4	37.0	9.4
Annual Volume of IV t-PA*	39 (28 - 53)	39 (28 - 52)	40 (28 - 57)	36 (28 - 54)	35 (29 - 48)	37 (28 - 50)	<.0001	5.3	5.0	15.6	7.1
Annual Volume of EVT*	77 (48 - 117)	76 (48 - 117)	85 (49 - 125)	74 (43 - 104)	68 (43 - 103)	84 (49 - 115)	<.0001	12.4	8.6	22.4	4.3

Table S3 Baseline characteristics missing rates and imputation details

Variable	Overall	EVT	No EVT	Imputation Details
Patient Demographics				
Age*	0	0	0	N/A
Female	0	0	0	N/A
Race/Ethnicity	0	0	0	N/A
Health Insurance Status	0	0	0	N/A
Year of Stroke Admission	0	0	0	N/A
Medical History	0	0	0	N/A
Ambulatory status prior to the current event	29.2	24.9	29.9	Missing/ND treated as a new category.
Arrival Information				
Ambulatory status on Admission	46.5	46.3	46.5	Missing/ND treated as a new category.
Patient location when stroke symptoms discovered	0.7	0.8	0.7	Missing treated as Not in a healthcare setting.
Arrival Mode: EMS	1.7	0.2	2.0	Missing treated as No.
Onset to Arrival Times, min*	0	0	0	
Off-Hour Arrival (Regular Hour: 7A-6P, M-F, non-holiday)	0	0	0	N/A
Initial NIHSS Score (0-42)*	0	0	0	N/A
Measurements				
Heart Rate (30-200), bpm*	28.4	21.9	29.5	
SBP (50-250), mm Hg*	18.4	4.6	20.6	
DBP (20-200), mm Hg*	18.2	4.5	20.4	
BMI*	36.9	32.4	37.6	
Medications Prior to Admission				
Antiplatelets	12.1	12.6	12.0	Missing/ND treated as a new category.
Anticoagulants	40.0	29.3	41.8	Missing/ND treated as a new category.
Antihypertensives	16.8	11.3	17.7	
Cholesterol-Reducers	0.3	0.1	0.3	
Diabetic Medications	21.0	16.2	21.7	
Initial exam findings	33.0	30.7	33.3	Added an indicator variable for missing/ND.
Reperfusion				
IV t-PA initiated at this hospital	0.1	0.1	0.1	
IV t-PA at an outside hospital?	46.5	32.3	48.9	
IV t-PA at this hospital or at an outside hospital	0.0	0.0	0.0	Missing rate <.05, missing treated as No.
Hospital Characteristics				
Number of Beds*	0	0	0	N/A
Rural Location	0	0	0	N/A
Stroke Center Status	0	0	0	N/A
Academic Hospital	0	0	0	N/A
Region	0	0	0	N/A
Annual Volume of IS Admissions*	0	0	0	N/A
Annual Volume of IV t-PA*	0	0	0	N/A
Annual Volume of EVT*	0	0	0	N/A

Note: shaded variables are model covariates.