

## Supplementary Material

The results in **Table 2** were robust to using Fischer's exact test and when estimating p-values via Monte Carlo simulation. Also, when we performed the analysis in **Table 3** with just the observations with complete information, we found neither transfer status nor last known well time to arrival to be significantly associated with 90-day mRS.

**Supplementary Table 1: Demographic and clinical characteristics of stroke survivors who received treatment stratified by follow-up status.**

Variable	Overall n = 701	Follow-up n = 280 (39.9%)	Incomplete Follow-up n = 421 (60.1%)	p-value
Age				0.282
<65	261 (37.4%)	97 (34.6%)	164 (39.0%)	
≥65	440 (62.8%)	183 (65.4%)	257 (61.0%)	
Sex				1.000
Female	331 (47.2%)	132 (47.1%)	199 (47.2%)	
Male	370 (52.8%)	148 (52.9%)	222 (52.8%)	
Race				0.115
Black	122 (17.4%)	51 (18.2%)	71 (16.9%)	
Other	177 (25.2%)	59 (21.1%)	118 (28.0%)	
White	402 (57.3%)	170 (60.7%)	232 (55.1%)	
NIHSS on Admission				0.173
0-9	333 (47.5%)	120 (42.9%)	213 (50.6%)	
10-19	242 (34.5%)	103 (36.8%)	139 (33.0%)	
20-42	122 (17.4%)	56 (20.0%)	66 (15.7%)	
Missing	4 (0.6%)	1 (0.4%)	3 (0.7%)	
Stroke Risk Factors				
Atrial Fibrillation	119 (17.0%)	59 (21.1%)	60 (14.3%)	0.024
Coronary Artery Disease	111 (15.8%)	46 (16.4%)	65 (15.4%)	0.806
Diabetes Mellitus	145 (20.7%)	54 (19.3%)	91 (21.6%)	0.515
Dyslipidemia	254 (36.2%)	105 (37.5%)	149 (35.4%)	0.625
Hypertension	434 (61.9%)	171 (61.1%)	263 (62.5%)	0.769
Obesity	306 (43.7%)	124 (44.3%)	182 (43.2%)	0.843
Previous Stroke	76 (10.8%)	25 (8.9%)	51 (12.1%)	0.228
Smoker	88 (12.6%)	41 (14.6%)	47 (11.2%)	0.213
Last Known Well Time to Arrival				0.916

Variable	Overall n = 701	Follow-up n = 280 (39.9%)	Incomplete Follow-up n = 421 (60.1%)	p-value
0-6 hours	622 (88.7%)	248 (88.6%)	374 (88.8%)	
6-24 hours	65 (9.3%)	27 (9.7%)	38 (9.0%)	
Missing	14 (2.0%)	5 (1.8%)	9 (2.1%)	
Transfer				<0.001
Transfer	421 (60.1%)	137 (48.9%)	284 (67.5%)	
Not Transfer	222 (31.7%)	117 (41.8%)	105 (24.9%)	
Missing	14 (8.3%)	26 (9.3%)	32 (7.6%)	
IV-tPA	616 (87.9%)	233 (83.2%)	383 (91.0%)	0.003
EVT	215 (30.7%)	111 (39.6%)	104 (24.7%)	<0.001
LOS				0.747
≤7 Days	407 (58.1%)	160 (57.1%)	247 (58.7%)	
>7 Days	294 (41.9%)	120 (42.9%)	174 (41.3%)	
Discharge Disposition				0.683
Home	296 (42.2%)	122 (43.6%)	174 (41.3%)	
IRF	290 (41.7%)	116 (41.4%)	174 (41.3%)	
SNF	115 (16.4%)	42 (15.0%)	73 (17.3%)	
Discharge mRS				0.556
0	139 (19.8%)	64 (22.9%)	75 (17.8%)	
1	140 (20.0%)	57 (20.4%)	83 (19.7%)	
2	94 (13.4%)	36 (12.9%)	58 (13.8%)	
3	115 (16.4%)	47 (16.8%)	68 (16.2%)	
4	171 (24.4%)	61 (21.8%)	110 (26.1%)	
5	42 (6.0%)	15 (5.4%)	27 (6.4%)	

Incomplete follow-up group was defined as the stroke survivors who were missing mRS scores at 30-days and/or 90-days follow-up periods. Categorical variables were presented with n (%). Abbreviations: inpatient rehabilitation facility (IRF), skilled nursing facility (SNF), National Institutes of Health Stroke Scale (NIHSS), intravenous tissue-type plasminogen activator (IV-tPA), endovascular therapy (EVT), length of stay (LOS), modified Rankin Scale (mRS). The denominator for the stratified groups in the header is n = 701. Comparison of the follow-up and incomplete follow-up groups was conducted using Pearson's chi-squared test for categorical variables.

**Supplementary Table 2: Positive and negative predictive values and likelihood ratios for all discharge variables to predict unfavorable outcome (mRS 3-6) at the 90-day follow-up period.**

Variable	PPV (95% CI)	NPV (95% CI)	PLR (95% CI)	NLR (95 % CI)
Discharge Disposition:				
IRF	60.3% (51.4-69.2%)	64.0% (56.7-71.4%)	1.78 (1.33-2.38)	0.66 (0.53-0.82)
SNF	88.1% (78.3-97.9%)	61.3% (55.2-67.5%)	8.66 (3.51-21.39)	0.74 (0.66-0.83)
IRF/SNF	67.7% (60.4-75.0%)	82.0% (75.1-88.8%)	2.46 (1.94-3.11)	0.26 (0.17-0.38)
Discharge mRS: 3-5	72.4% (64.5-80.3%)	74.5% (67.8-81.3%)	3.06 (2.23-4.21)	0.40 (0.31-0.52)
Selected Variables Model	74.4% (67.0-81.8%)	79.6% (73.1-86.1%)	3.41 (2.50-4.65)	0.30 (0.22-0.42)

Abbreviations: positive predictive value (PPV), negative predictive value (NPV), positive likelihood ratio (PLR), negative likelihood ratio (NLR), confidence interval (CI), inpatient rehabilitation facility (IRF), skilled nursing facility (SNF), length of stay (LOS).