

Supplementary Table 1. Unadjusted risks and odds of outcomes by race

Outcome:		Black		White		Black – White		Black/White		Black/White		
		Risk	95% CI	Risk	95% CI	Risk difference	95% CI	Risk ratio	95% CI	Odds ratio	95% CI	p-value
<u>Among all AIS:</u>	TPA	0.096	0.094 - 0.098	0.122	0.123 - 0.123	-0.026	-0.028, -0.024	0.787	0.770-0.805	0.714	0.694-0.735	<0.0001
	ET	0.027	0.026 - 0.028	0.033	0.034 - 0.034	-0.006	0.007, -0.005	0.820	0.784-0.858	0.685	0.651-0.721	<0.0001
<u>Among those receiving tPA:</u>	Inpatient mortality	0.065	0.059 - 0.070	0.068	0.072 - 0.072	-0.005	0.011, -0.001	0.926	0.845-1.014	0.916	0.827-1.015	0.0935
	30-day mortality	0.146	0.138 - 0.154	0.178	0.183 - 0.183	-0.034	0.043, -0.026	0.809	0.764-0.857	0.768	0.717-0.824	<0.0001
	Discharge home	0.210	0.201 - 0.219	0.268	0.274 - 0.274	-0.061	0.071, -0.051	0.775	0.740-0.811	0.724	0.681-0.771	<0.0001
	Outpatient visit within 30 days	0.339	0.327 - 0.351	0.380	0.388 - 0.388	-0.045	0.057, -0.032	0.883	0.851-0.916	0.891	0.839-0.946	0.0002
<u>Among those receiving ET:</u>	Inpatient mortality	0.127	0.112 - 0.141	0.138	0.148 - 0.148	-0.016	0.031, -0.001	0.889	0.790-1.000	0.875	0.759-1.009	0.0662
	30-day mortality	0.234	0.215 - 0.252	0.295	0.308 - 0.308	-0.068	0.087, -0.049	0.775	0.715-0.840	0.706	0.633-0.788	<0.0001
	Discharge home	0.093	0.080 - 0.105	0.114	0.123 - 0.123	-0.025	0.038, -0.012	0.787	0.906-1.461	0.753	0.642-0.883	0.0005
	Outpatient visit within 30 days	0.348	0.324 - 0.372	0.375	0.391 - 0.391	-0.035	0.061, -0.010	0.907	0.845-0.975	0.891	0.792-1.002	0.0548

Note: AIS=acute ischemic stroke; tPA=tissue plasminogen activator administration; ET=endovascular thrombectomy; CI=confidence interval

Supplementary Table 2. Adjusted models of outcomes, showing odds ratios for Black vs. White race

		<u>Unadjusted models</u>			<u>Adjusted models</u>			<u>Models adjusted additionally for NIHSS</u>		
Outcome:		OR	95% CI	p-value	OR	95% CI	p-value	OR	95% CI	p-value
<u>Among all AIS:</u>	TPA	0.71	0.69-0.74	<0.0001	0.74	0.72-0.76	<.0001	0.71	0.68-0.74	<.0001
	ET	0.69	0.65-0.72	<0.0001	0.65	0.61-0.68	<.0001	0.61	0.57-0.66	<.0001
<u>Among those receiving tPA:</u>	Inpatient mortality	0.92	0.83-1.02	0.0935	0.88	0.79-0.98	0.0201	0.71	0.61-0.84	<.0001
	30-day mortality	0.77	0.72-0.82	<0.0001	0.78	0.72-0.84	<.0001	0.58	0.52-0.66	<.0001
	Discharge home	0.72	0.68-0.77	<0.0001	0.70	0.66-0.75	<.0001	0.74	0.68-0.81	<.0001
	Outpatient visit within 30 days	0.89	0.84-0.95	0.0002	0.89	0.83-0.94	0.0001	0.87	0.80-0.95	0.0012
<u>Among those receiving ET:</u>	Inpatient mortality	0.88	0.76-1.01	0.0662	0.86	0.74-0.99	0.0418	0.76	0.62-0.93	0.0091
	30-day mortality	0.71	0.63-0.79	<0.0001	0.70	0.63-0.79	<.0001	0.60	0.51-0.70	<.0001
	Discharge home	0.75	0.64-0.88	0.0005	0.77	0.65-0.91	0.0018	0.82	0.67-1.01	0.0573
	Outpatient visit within 30 days	0.89	0.79-1.00	0.0548	0.90	0.80-1.01	0.0804	0.91	0.78-1.06	0.2173

Note: All odds ratios are for the independent variable of Black vs. White race. Adjusted models are additionally adjusted for: AIS case volume of the hospital, age, sex, Charlson Comorbidity Index, teaching hospital status, Multidimensional Deprivation Index, urban vs. non-urban hospital location, stroke certification status of the hospital, intensive care unit availability at the hospital, neurologist availability at the hospital.

Abbreviations: AIS=acute ischemic stroke; tPA=tissue plasminogen activator administration; ET=endovascular thrombectomy; CI=confidence interval; NIHSS=NIH Stroke Scale

Supplemental Table 3. Odds of outcomes, comparing Black vs. White patients, among hospitals with particular characteristics

		<u>Among all AIS</u>			<u>Among urban hospitals</u>			<u>Among stroke certified hospitals</u>			<u>Among teaching hospitals</u>			<u>Among hospitals with >=200 AIS</u>			<u>Among hospitals with highest MDI quartile</u>		
Outcome:		O R	95% CI	p-value	O R	95% CI	p-value	O R	95% CI	p-value	O R	95% CI	p-value	O R	95% CI	p-value	O R	95% CI	p-value
<u>Amon</u> <u>g all</u> <u>AIS:</u>	TPA	0.71	0.69 - 0.74	<0.001	0.72	0.69 - 0.74	<0.001	0.71	0.68 - 0.73	<0.001	0.69	0.67 - 0.71	<0.001	0.70	0.68 - 0.72	<0.001	0.68	0.65 - 0.71	<0.001
	ET	0.69	0.65 - 0.72	<0.001	0.66	0.62 - 0.70	<0.001	0.66	0.62 - 0.71	<0.001	0.66	0.63 - 0.70	<0.001	0.68	0.65 - 0.72	<0.001	0.62	0.57 - 0.67	<0.001
<u>Amon</u> <u>g those</u> <u>receiving</u> <u>tPA:</u>	Inpatient mortality	0.92	0.83 - 1.02	0.093	0.90	0.80 - 1.03	0.12	0.95	0.82 - 1.09	0.44	0.94	0.84 - 1.05	0.27	0.91	0.82 - 1.01	0.07	1.05	0.89 - 1.24	0.6
	30-day mortality	0.77	0.72 - 0.82	<0.001	0.75	0.69 - 0.81	<0.001	0.75	0.68 - 0.83	<0.001	0.78	0.72 - 0.84	<0.001	0.77	0.72 - 0.83	<0.001	0.80	0.71 - 0.90	0.002
	Discharge home	0.72	0.68 - 0.77	<0.001	0.74	0.68 - 0.79	<0.001	0.74	0.68 - 0.80	<0.001	0.72	0.67 - 0.78	<0.001	0.73	0.68 - 0.78	<0.001	0.75	0.67 - 0.83	<0.001
	Outpatient visit within 30 days	0.89	0.84 - 0.95	0.0002	0.91	0.85 - 0.98	0.014	0.89	0.81 - 0.96	0.005	0.89	0.83 - 0.95	0.005	0.90	0.84 - 0.95	0.004	0.92	0.83 - 1.02	0.13
<u>Amon</u> <u>g those</u> <u>receiving</u> <u>ET:</u>	Inpatient mortality	0.88	0.76 - 1.01	0.066	0.88	0.74 - 1.04	0.13	0.84	0.69 - 1.02	0.08	0.88	0.76 - 1.03	0.11	0.88	0.76 - 1.01	0.08	0.90	0.71 - 1.14	0.4
	30-day mortality	0.71	0.63 - 0.79	<0.001	0.70	0.61 - 0.79	<0.001	0.67	0.58 - 0.77	<0.001	0.72	0.64 - 0.80	<0.001	0.71	0.63 - 0.79	<0.001	0.78	0.65 - 0.93	0.006

						0.8 0			0.7 8			0.8 1			0.7 9			0.9 3	
	Discharge home	0.7 5	0.64 - 0.88	0.000 5	0.8 1	0.6 7- 0.9 8	0.03	0.8 1	0.6 5- 1.0 1	0.055	0.7 8	0.6 6- 0.9 0	0.00 4	0.7 6	0.6 4- 0.8 9	0.00 06	0.8 4	0.6 5- 1.0 8	0.16
	Outpatient visit within 30 days	0.8 9	0.79 - 1.00	0.054 8	0.8 9	0.7 7- 1.0 2	0.10	0.9 3	0.7 9- 1.0 9	0.4	0.9 0	0.7 9- 1.0 2	0.09 5	0.9 0	0.8 0- 1.0 1	0.08	0.8 6	0.7 1- 1.0 4	0.13

Note: All odds ratios are for the independent variable of Black vs. White race.

Abbreviations: AIS=acute ischemic stroke; tPA=tissue plasminogen activator administration; ET=endovascular thrombectomy; CI=confidence interval

Supplemental figure: distribution of percent of Black patients at hospitals that treated at least 11 acute ischemic stroke patients

