### Online Supplement

Disparities in Accessibility of Primary Stroke Centers

Supplemental Table/Figures

#### I. Modified Rural-Urban Continuum Codes Defined

Code	Definition
0	Central counties of metropolitan areas of 1 million population or more
1	Fringe counties of metropolitan areas of 1 million population or more
2	Counties of metropolitan areas of 250,000 to 1 million population
3	Counties in metropolitan areas of fewer than 250,000 population
4	Adjacent to a metropolitan area, urban population of 20,000 or more
5	Not adjacent to a metropolitan area, urban population of 20,000 or more
6	Adjacent to a metropolitan area, urban population of 2,500-19,999
7	Not adjacent to a metropolitan area, urban population of 2,500-19,9000
8	Adjacent to a metropolitan area, rural or less than 2,500 urban population
9	Not-adjacent to a metropolitan area, rural or less than 2,500 urban population

# II. Demographic Variables, including source, geographic unit, and year.

				All Block	Groups in the USA
	Source	Geographic Unit	Year	Median	Interquartile Range
Income					
Per Capita Income	Neilson/Claritas	Block Group	2010	\$23,139	\$17,551 - \$31,06
Per Capita Income	American Community Survey	Block Group	2005-2009	\$23,208	\$17,312 - \$31,36
Median Household Income	American Community Survey	Block Group	2005-2009	\$48,125	\$34,632 - \$66,90
Median Family Income	American Community Survey	Block Group	2005-2009	\$57,404	\$41,552 - \$79,01
Poverty					
% Population Under 18 Living in Poverty	American Community Survey	Census Tract	2005-2009	15.2%	5.9% - 29.1%
% Population 18 to 64 Living in Poverty	American Community Survey	Census Tract	2005-2009	10.7%	5.8% - 18.2%
% Population 65 and Over Living in Poverty	American Community Survey	Census Tract	2005-2009	8.2%	3.8% - 14.8%
% Total Population Living in Poverty	American Community Survey	Census Tract	2005-2009	11.5%	6.1% - 19.6%
% of Households Receiving Public Assistance Income	American Community Survey	Block Group	2005-2009	0.5%	0.0% - 3.6%
% of Families with Income Below the Poverty Level	American Community Survey	Block Group	2005-2009	6.6%	0.0% - 16.5%
nsurance Status					
% Under 19 without Health Insurance	Area Resource File	County	2010	7.1%	5.4 - 11.0%
% Under 65 without Health Insurance	Area Resource File	County	2010	16.3%	12.7% - 20.2%
CMS Eligibles					
% Eligible for Medicare	Area Resource File	County	2008	14.9%	12.3% - 17.5%
% Eligible for Medicaid	Area Resource File	County	2008	19.0%	14.2% - 24.6%
ducation - Dropouts					
% Population 25 or Over with Less than High School Degree	American Community Survey	Block Group	2005-2009	13.00%	6.2% - 23.4%
% Population 25 or Over with Some College Education	American Community Survey	Block Group	2005-2009	27.20%	20.3% - 34.0%
ducation - Degrees					
% Population 25 or Over, High School Graduate	American Community Survey	Block Group	2005-2009	30.8%	21.2% - 39.9%
% Population 25 or Over, Bachelors Degree	American Community Survey	Block Group	2005-2009	13.5%	7.1% - 22.8%
% Population 25 or Over, Master's Degree	American Community Survey	Block Group	2005-2009	4.5%	1.6% - 9.4%
% Population 25 or Over, Professional Degree	American Community Survey	Block Group	2005-2009	0.3%	0.0% - 2.3%
% Population 25 or Over, Doctoral Degree	American Community Survey	Block Group	2005-2009	0.0%	0.0% - 1.3%
imployment					
% in Labor Force who are Employed	Neilson/Claritas	Block Group	2010	94.60%	90.8% - 97.1%
ace				2.7%	0.6% - 12.9%
% Black	Neilson/Claritas	Block Group	2010	16.0%	5.6% - 43.6%
% Non-White	Neilson/Claritas	Block Group	2010		
thnicity & Origin					
% Hispanic	Neilson/Claritas	Block Group	2010	4.4%	1.6% - 15.4%
% Foreign-Born	Neilson/Claritas	Block Group	2010	5.9%	2.0% - 15.4%
ealthcare Utilization					
Total Hospital Admissions per 1,000 Population	Area Resource File	County	2010	118.9	83.0 - 166.2
Total Hospital Beds per 1,000 Population	Area Resource File	County	2010	2.9	2.0 - 4.1
Total Hospital Inpatient Days Per 1,000 Population	Area Resource File	County	2010	739.2	439.2 - 1054.0
Total Hospital ED Visits per 1,000 Population	Area Resource File	County	2010	398.3	278.7 - 524.3
ealthcare Resources - Doctors					
Non-Federal MDs in Neurology Devoted to Total Patient Care per 100,000 Population	Area Resource File	County	2010	3.9	1.6 - 6.2
Non-Federal MDs in Emergency Medicine Devoted to Total	Asso Decrees 5th	Country	2010	0.7	E C 43.0
Patient Care per 100,000 Population	Area Resource File	County	2010	9.7	5.0-13.9
					1.1-2.6
Day Carries CTC Hagginals With FD	Anna Da	Country	2000	0.0	0.0 - 0.0
Per Capita STG Hospitals With ED	Area Resource File	County	2008	0.8	0.6-1.5

# III. Major City Multivariable Model Results

	Coefficient	959	% CI	P-Value
Income	1.315	(1.096 -	1.579)	0.003
Poverty	0.709	(0.595 -	0.845)	< 0.001
Uninsured	957.525	(391.664 -	2340.918)	< 0.001
Medicare and/or Medicaid Eligible	0.042	(0.027 -	0.065)	< 0.001
Education: Degrees	2.291	(1.706 -	3.077)	< 0.001
Education: Dropouts	0.836	(0.769 -	0.908)	< 0.001
Black and non-White	2.569	(2.059 -	3.205)	< 0.001
Hispanic and Foreign Born	4.855	(3.360 -	7.016)	< 0.001
Healthcare Utilization	19.156	(12.643 -	29.022)	< 0.001
Resources: Hospitals	0.000	(0.000 -	0.000)	< 0.001
Resources: Physicians	4.282	(3.770 -	4.865)	< 0.001
Percent Employed	1.015	(1.006 -	1.024)	0.001
Stroke Belt Location	0.001	(0.000 -	0.003)	< 0.001
Rural-Urban Continuum Code	0.001	(0.000 -	0.002)	< 0.001

### **IV. Minor City Multivariable Model Results**

	Coefficient	95% CI	P-Value
Income	0.983	(0.807 - 1.199)	0.867
Poverty	1.141	(0.998 - 1.303)	0.053
Uninsured	0.811	(0.672 - 0.978)	0.028
Medicare and/or Medicaid Eligible	0.405	(0.356 - 0.459)	< 0.001
Education: Degrees	2.095	(1.706 - 2.573)	< 0.001
Education: Dropouts	0.813	(0.743 - 0.888)	< 0.001
Black and non-White	2.086	(1.630 - 2.670)	< 0.001
Hispanic and Foreign Born	1.788	(1.286 - 2.485)	0.001
Healthcare Utilization	2.552	(2.234 - 2.915)	< 0.001
Resources: Hospitals	0.474	(0.376 - 0.596)	< 0.001
Resources: Physicians	4.106	(3.305 - 5.101)	< 0.001
Percent Employed	1.014	(1.000 - 1.027)	0.048
Stroke Belt Location	0.567	(0.420 - 0.766)	< 0.001
Rural-Urban Continuum Code	0.119	(0.089 - 0.160)	< 0.001

#### V. Suburbs Multivariable Model Results

	Coefficient	95% CI	P-Value
Income	0.553	(0.413 - 0.740)	<0.001
Poverty	0.839	(0.699 - 1.007)	0.059
Uninsured	0.637	(0.514 - 0.789)	< 0.001
Medicare and/or Medicaid Eligible	0.655	(0.594 - 0.724)	< 0.001
Education: Degrees	2.352	(1.715 - 3.227)	< 0.001
Education: Dropouts	0.752	(0.663 - 0.853)	< 0.001
Black and non-White	1.770	(1.411 - 2.219)	< 0.001
Hispanic and Foreign Born	1.425	(0.926 - 2.194)	0.108
Healthcare Utilization	2.246	(2.015 - 2.503)	< 0.001
Resources: Hospitals	0.326	(0.272 - 0.390)	< 0.001
Resources: Physicians	1.604	(1.456 - 1.766)	< 0.001
Percent Employed	1.021	(1.001 - 1.040)	0.04
Stroke Belt Location	2.678	(2.170 - 3.307)	< 0.001
Rural-Urban Continuum Code	0.740	(0.688 - 0.796)	< 0.001