

# **SUPPLEMENTAL MATERIAL**

**Table S1. Description of Resources – North American Industry Classification System (NAICS) Codes and Examples.**

<b>Specific Types of Resources</b>	<b>NAICS* Codes</b>	<b>Examples of Resource Types</b>	<b>Overall Sample (N=1,786) Median (IQR*)</b>
Overall Resources	All Identified Below	All Identified Below	39.489 (15.903, 71.727)
Retail Businesses	442*, 443*, 444*, 448*, 451*, 452210, 453910, 453310, 446120, 446191	Home furnishing stores, electronic stores, hardware stores, clothing stores, department stores, pet stores, and health supplement stores	8.667 (3.583, 17.815)
Food Stores	445110, 4452*, 452311	Supermarkets, grocery stores, specialty food stores, and warehouse clubs	2.167 (0.999, 5.173)
Post Office and Banks	491*, 522120, 522130	Post office facilities, savings and loan banks, and credit unions	0.000 (0.000, 0.820)
Social Service Sites	624*	Family social service agencies, food banks and pantries, vocational rehabilitation services, senior centers, and disability support groups	2.447 (0.939, 6.222)
Arts & Entertainment Centers	7111*, 7112*, 712*, 51912*, 7131*, 7132*, 721120	Performing arts centers, spectator sports centers, museums, libraries, and casinos	0.585 (0.000, 1.532)
Recreation Centers	7139*	Fitness centers, sports clubs, golf clubs, marinas, and bowling alleys	1.578 (0.309, 3.055)
Eating and Drinking Places	7225*, 722410	Restaurants, fast-food restaurants, coffee/donut shops, and bars	7.913 (3.098, 14.252)

Personal Care Establishments	812111, 812112, 812113, 812191, 812199, 812310	Barber and hair salons, spas, and laundromats	4.603 (1.314, 9.015)
Religious Organizations	8131*	Churches, synagogues, mosques, and temples	4.478 (1.754, 7.555)
Civic and Social Organizations	8134*	Veteran's organizations, ethnic organizations, sororities and fraternities, alumni associations, and social clubs	0.658 (0.000, 2.167)

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\* Abbreviations: IQR – Interquartile Rance; NAICS – North American Industry Classification System

**Table S2. Missing data imputed by chained multiple imputation using available data from each study population.**

<b>Variable</b>	<b>Stroke Recurrence &amp; Mortality (N=1,786) N (%)</b>	<b>ADL/IADL* &amp; 3MSE* (N=1,284) N (%)</b>	<b>SS-QoL* (N=1,189) N (%)</b>	<b>PHQ-8* (N=1,086) N (%)</b>
Smoking Status	2 (0.1%)	1 (0.1%)	1 (0.1%)	2 (0.2%)
Stroke Severity	12 (0.7%)	8 (0.6%)	8 (0.7%)	8 (0.7%)
Depression	16 (0.9%)	10 (0.8%)	9 (0.8%)	6 (0.6%)
Modified Rankin Score	24 (1.3%)	15 (1.2%)	15 (1.3%)	15 (1.4%)
Health Insurance Status	25 (1.4%)	18 (1.4%)	16 (1.3%)	10 (0.9%)
Social Support Scale	88 (4.9%)	57 (4.4%)	52 (4.4%)	46 (4.2%)
IQCODE*	355 (19.9%)	221 (17.2%)	216 (18.2%)	199 (18.3%)
ADL/IADL*	-	20 (1.6%)	-	-
3MSE*	-	38 (3.0%)	-	-
SS-QoL*	-	-	50 (4.2%)	-
PHQ-8*	-	-	-	11 (1.0%)

\*ADL /IADL – Activities of Daily Living/ Instrumental ADL, 3MSE – Modified Mini-Mental State Examination, SS-QoL – abbreviated Stroke Specific Quality of Life Scale, PHQ-8 – Patient Health Questionnaire Eight, IQCODE - Informant Questionnaire on Cognitive Decline in the Elderly

**Table S3. Minimal detectable effect (MDE)\*, † for interquartile range difference in neighborhood resource density for given outcome and intra-cluster correlation (ICC)\*, ‡ combination.**

Outcome	Median (Q1, Q3*)	ICC*, ‡ (Effective Sample Size)*, §				
		0 (1,284) MDE* (95% CI*)	0.005 (1,192) MDE* (95% CI*)	0.01 (1,112) MDE* (95% CI*)	0.02 (981) MDE* (95% CI*)	0.03 (877) MDE* (95% CI*)
ADL/IADL* score	1.8 (1.2, 2.5)	0.20 (0.20, 0.21)	0.21 (0.20, 0.22)	0.22 (0.21, 0.23)	0.23 (0.22, 0.24)	0.25 (0.24, 0.26)
3MSE* score	81.0 (73.0, 85.0)	1.88 (1.81, 1.95)	1.95 (1.87, 2.03)	2.02 (1.94, 2.11)	2.15 (2.06, 2.25)	2.27 (2.17, 2.38)
SS-QoL* score	3.8 (2.8, 4.5)	0.27 (0.26, 0.28)	0.28 (0.27, 0.29)	0.29 (0.27, 0.30)	0.30 (0.29, 0.32)	0.32 (0.31, 0.34)
PHQ-8* score	5.0 (1.0, 11.0)	1.56 (1.51, 1.63)	1.62 (1.56, 1.69)	1.68 (1.61, 1.75)	1.79 (1.71, 1.87)	1.89 (1.81, 1.99)

\*Abbreviations: MDE - Minimal detectable effect, ICC - intra-cluster correlation, Q1 – first quartile, Q3 - third quartile, ADL/IADL – Activities of Daily Living/ Instrumental ADL, 3MSE – Modified Mini-Mental State Examination, PHQ-8 – Patient Health Questionnaire Eight, SS-QoL – abbreviated Stroke Specific Quality of Life Scale

† MDE size was calculated for a power of 80%, significance level of 0.05, and our study population of 1,284 survivors across 78 census tracts.

‡ The intra cluster correlation (ICC) is the variance between clusters divided by the sum of variance between and within clusters. We considered an ICC of 0, 0.005, 0.01, 0.02, and 0.03.

§ We reduced the effective sample size due to clustering of stroke survivors within neighborhoods using the ICC. We computed the effective sample size as  $1,284 / (1 + [(1,284/78) - 1] * ICC)$  for various ICCs.

**Table S4. Hedges' *g* for outcomes comparing first with fourth quartile of neighborhood resource density.**

<b>Outcome</b>	<b>Neighborhood Resource Density – First Quartile</b>		<b>Neighborhood Resource Density – Fourth Quartile</b>		<b>Hedges' <i>g</i></b>
	<b>N</b>	<b>Mean (SD*)</b>	<b>N</b>	<b>Mean (SD*)</b>	
ADL/IADL* score	328	1.91 (0.81)	320	1.95 (0.82)	0.05
3MSE* score	328	77.03 (12.82)	320	78.01 (10.73)	0.08
SS-QoL* score	307	3.64 (0.95)	295	3.66 (0.92)	0.02
PHQ-8* score	275	6.54 (6.27)	272	6.62 (6.54)	0.01

\*Abbreviations: SD – Standard Deviation, ADL/IADL – Activities of Daily Living/ Instrumental ADL, 3MSE – Modified Mini-Mental State Examination, PHQ-8 – Patient Health Questionnaire Eight, SS-QoL – abbreviated Stroke Specific Quality of Life Scale