

Appendix C. Associations between urbanicity-specific neighborhood minority composition^a and high neighborhood poverty^b and alternate measures^c of availability [beta coefficient (95% CI)]^{d,e} National Longitudinal Study of Adolescent Health, Wave III (2001-2), n=13,995, by urbanicity^f

Neighborhood				
Poverty status ^{a,g}	Minority population ^{b,g}	Non-urban	Low density urban	High density urban
Grocery/supermarket density (count per 10,000 population) within 3 km Euclidean buffer around each individual residence				
Low	Low	0.0	0.0	0.0
	Medium	-0.04 (-0.40, 0.31)	-0.92 (-1.40, -0.44)	-0.03 (-0.61, 0.55)
	High	-0.35 (-0.69, -0.02)	-1.76 (-2.35, -1.18)	-0.51 (-1.04, 0.02)
High	Low	0.08 (-0.49, 0.66)	-0.03 (-0.55, 0.48)	1.11 (0.04, 2.18)
	Medium	-0.38 (-0.77, 0.01)	-1.14 (-1.78, -0.50)	0.40 (-0.94, 1.74)
	High	-0.01 (-0.42, 0.40)	-1.57 (-2.40, -0.74)	0.17 (-1.21, 1.55)
Distance to nearest grocery/supermarket (km) within 8 km Euclidean buffer around each individual residence				
Low	Low	0.0	0.0	0.0
	Medium	-0.24 (-1.22, 0.74)	0.52 (0.24, 0.81)	0.18 (-0.11, 0.47)
	High	-0.16 (-1.45, 1.12)	1.09 (0.46, 1.71)	0.20 (-0.50, 0.89)
High	Low	-1.43 (-2.47, -0.39)	-0.08 (-0.36, 0.20)	0.08 (-0.33, 0.48)
	Medium	-0.82 (-2.50, 0.85)	0.26 (-0.17, 0.69)	0.26 (-0.28, 0.79)
	High	-1.67 (-3.39, 0.05)	0.66 (0.03, 1.29)	0.12 (-0.52, 0.77)
Convenience store density (count per 10,000 population) within 3 km Euclidean buffer around each individual residence				
Low	Low	0.0	0.0	0.0
	Medium	-0.70 (-2.22, 0.83)	-0.86 (-1.36, -0.35)	0.18 (-0.47, 0.84)
	High	-0.84 (-2.43, 0.75)	-1.84 (-2.58, -1.10)	0.87 (-0.16, 1.89)
High	Low	1.77 (-1.33, 4.87)	-0.09 (-0.65, 0.46)	-0.12 (-0.95, 0.71)
	Medium	-1.48 (-3.06, 0.10)	-1.30 (-2.06, -0.55)	-0.13 (-1.32, 1.06)
	High	-0.79 (-2.39, 0.81)	-2.19 (-3.02, -1.36)	0.76 (-0.44, 1.95)
Distance to nearest convenience store (km) within 8 km Euclidean buffer around each individual residence				
Low	Low	0.0	0.0	0.0
	Medium	0.34 (-0.35, 1.03)	0.35 (0.11, 0.60)	0.11 (-0.02, 0.24)
	High	0.27 (-0.67, 1.21)	1.12 (0.61, 1.63)	0.16 (-0.13, 0.45)
High	Low	0.33 (-1.01, 1.67)	-0.12 (-0.32, 0.08)	0.32 (0.05, 0.59)
	Medium	-0.04 (-1.22, 1.15)	0.49 (0.02, 0.95)	0.30 (0.04, 0.55)
	High	1.19 (-0.27, 2.64)	0.61 (0.17, 1.06)	0.08 (-0.13, 0.30)
Fast food density (count per 10,000 population) within 3 km Euclidean buffer around each individual residence				
Low	Low	0.0	0.0	0.0
	Medium	-1.59 (-4.05, 0.87)	0.83 (0.28, 1.37)	0.56 (-0.25, 1.37)
	High	-1.52 (-3.93, 0.88)	0.96 (0.33, 1.59)	1.91 (1.03, 2.79)
High	Low	1.62 (-0.61, 3.84)	0.51 (-0.09, 1.10)	0.71 (-0.21, 1.63)
	Medium	2.67 (-0.08, 5.41)	3.59 (1.57, 5.60)	0.99 (-0.17, 2.16)
	High	-1.22 (-3.83, 1.40)	6.04 (2.11, 9.97)	1.89 (0.62, 3.17)

Distance to nearest fast food restaurant (km) within 8 km Euclidean buffer around each individual residence

Low	Low	0.0	0.0	0.0
	Medium	0.32 (-0.06, 0.71)	0.03 (-0.06, 0.12)	-0.08 (-0.18, 0.02)
	High	0.07 (-0.40, 0.54)	0.10 (0.00, 0.21)	-0.14 (-0.24, -0.04)
High	Low	-0.20 (-0.49, 0.08)	-0.05 (-0.16, 0.05)	-0.07 (-0.14, 0.00)
	Medium	-0.44 (-0.89, 0.01)	-0.24 (-0.36, -0.13)	-0.09 (-0.22, 0.05)
	High	0.51 (-0.33, 1.34)	-0.30 (-0.46, -0.13)	-0.17 (-0.28, -0.07)

^a Greater than 20% of population below the federal poverty level

^b Percent non-Hispanic White population. Non-urban (Low:0-74.7%, Medium: 74.8-96.3%, High: 96.4-100%), Low density urban (Low: 0-70.7%, Medium: 70.8-90.5% High: 90.6-100%) High density urban (Low: 0-31%, Medium: 31.1-63.7%, High: 63.8-10%)

^c See Appendix A for SIC codes for grocery/supermarkets, convenience stores, and fast food

^d Linear regression models, controlling for percent college educate and population density (except model of count per population measure)

^e Dashes represent un-estimated associations; 1) measure within network 8km in low and high-density urban areas 2) measure within network 1km in non-urban areas.

^f Non-urban: distance to Urbanized Area (UA) >0, low density urban: distance to UA=0 & % developed land cover, excluding water and ice (land developed) <=95%, high density urban: distance to UA=0 & % land developed >95%.

^g Census block group