Supplementary File: Spatially explicit age segregation index and self-rated health of older adults in U.S. cities

Table S1. 25 MMSAs with Most Age Segregation Index and 25 with Least Age Segregation Index, 2010

MMSAs with Highest Age Segregation Index	Age Segregation Index	MMSAs with Lowest Age Segregation Index	Age Segregation Index
Pullman, WA	33.431	Brookings, OR	-3.636
Phoenix-Mesa-Glendale, AZ	31.204	Middlesborough, KY	1.021
Yuma, AZ	29.688	Tallulah, LA	1.293
Rexburg, ID	29.374	Harrisburg, IL	1.424
College Station-Bryan, TX	28.184	Arkadelphia, AR	1.514
Hilton Head Island-Beaufort, SC	26.875	St. Marys, PA	1.672
Killeen-Temple-Fort Hood, TX	24.150	Batesville, AR	1.709
Ames, IA	23.921	Atchison, KS	1.748
Austin-Round Rock-San Marcos, TX	23.792	Berlin, NH-VT	1.851
Cape Coral-Fort Myers, FL	23.485	Maysville, KY	1.891
Provo-Orem, UT	23.420	Newport, TN	1.903
Ocala, FL	23.326	Fredericksburg, TX	1.908
Riverside-San Bernardino-Ontario, CA	23.024	Kennett, MO	1.964
Gainesville, FL	22.906	McAlester, OK	1.968
Naples-Marco Island, FL	22.824	Harriman, TN	2.021
The Villages, FL	22.786	Vernon, TX	2.048
Miami-Fort Lauderdale-Pompano Beach, FL	22.496	Mountain Home, AR	2.085
Arcadia, FL	22.486	Campbellsville, KY	2.105
Tucson, AZ	22.364	Magnolia, AR	2.108
Carbondale, IL	22.215	Tuskegee, AL	2.114
Salinas, CA	22.150	Somerset, KY	2.146
Tampa-St. Petersburg-Clearwater, FL	21.848	Grenada, MS	2.237
State College, PA	21.198	Hutchinson, MN	2.299
Flagstaff, AZ	20.880	Andrews, TX	2.369
Champaign-Urbana, IL	20.833	Bradford, PA	2.375

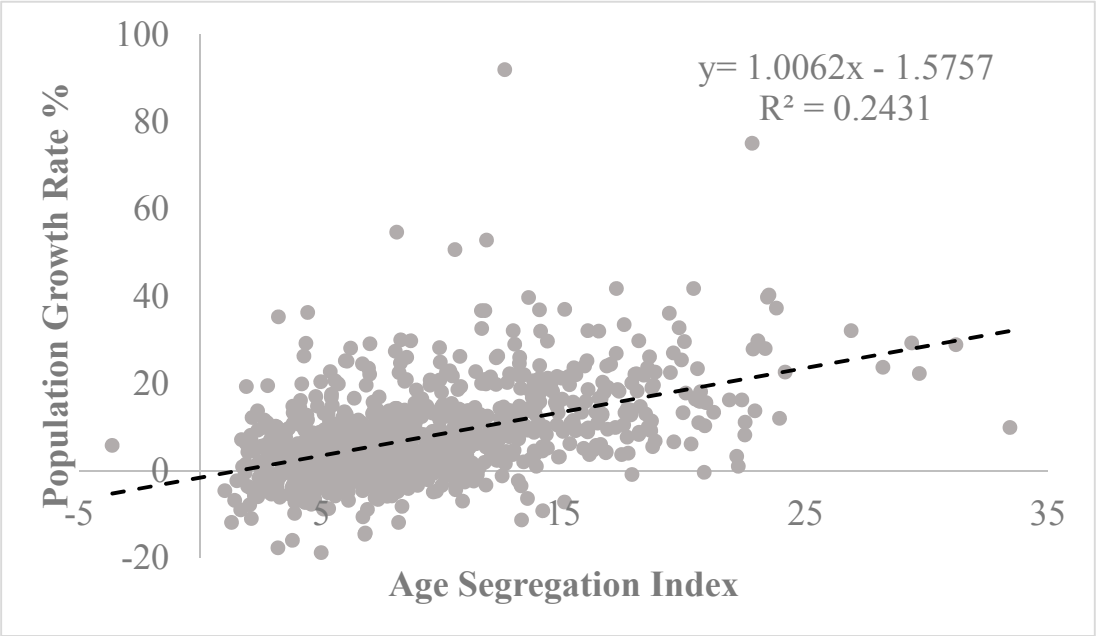

Figure S1. Scatterplot of age segregation index vs. MMSA growth rate 2000-2010. Statistical test shows that the correlation between them is significantly positive.

Figure S2. Scatterplot of age segregation index vs. logarithm of area of MMSAs. Statistical test shows that the correlation between them is significantly positive.

Table S2. Multilevel Models Predicting Variation in MENTHLTH among Elderly Populations

Variable	Model 1	Model 2	Model 3	Model 4
Intercept	0.789*	0.321*	0.475*	0.055
Individual Level Variables				
Gender				
Men		-0.174*		-0.174*
Women (Ref.)		--		--
Marital Status				
Divorced/Widowed/Separated /Never Married		0.018		0.018
Married/Unmarried Couple (Ref.)		--		--
Race				
Other		0.127		0.127
Black or African American		-0.061		-0.061
White (Ref.)		--		--
Education				
Did not graduate High School		0.276*		0.276*
Graduated High School		0.100*		0.100*
Attend College or Technical School		0.155*		0.155*
Graduate from College or Technical School (Ref.)		--		--
Annual Household Income ($)				
Less than 15000		0.875*		0.875*
15000 to 25000		0.560*		0.560*
25000 to 35000		0.376*		0.377*
35000 to 50000		0.258*		0.258*
Larger than 50000 (Ref.)		--		--
MMSA Level Variable				
Age Segregation			-0.000	0.008*
Total Population			0.000	0.000*
Area (km^2)			-0.000	-0.000
Education Level			2.966*	2.217*
Poverty Level			-0.635	-1.024
AIC	1,392,480	1,371,682	1,392,475	1,371,721
BIC	1,392,489	1,371,691	1,392,484	1,371,730
Variance (Intercept)	0.064	0.058	0.052	0.049

* $p<0.05$

Table S3. Multilevel Models Predicting Variation in PHYSHLTH among Elderly Populations

Variable	Model 1	Model 2	Model 3	Model 4
Intercept	1.622*	1.074*	1.395*	0.896*
Individual Level Variables				
Gender				
Men		0.017		0.017
Women (Ref.)		--		--
Marital Status				
Divorced/Widowed/Separated /Never Married		-0.002		-0.003
Married/Unmarried Couple (Ref.)		--		--
Race				
Other		0.016		0.016
Black or African American		-0.012		-0.012
White (Ref.)		--		--
Education				
Did not graduate High School		0.302*		0.302*
Graduated High School		0.155*		0.155*
Attend College or Technical School		0.159*		0.159*
Graduate from College or Technical School (Ref.)		--		--
Annual Household Income ($)				
Less than 15000		0.864*		0.864*
15000 to 25000		0.603*		0.604*
25000 to 35000		0.392*		0.393*
35000 to 50000		0.208*		0.208*
Larger than 50000 (Ref.)		--		--
MMSA Level Variable				
Age Segregation			-0.004	0.004
Total Population			-0.000	0.000
Area (km^2)			0.000*	0.000
Education Level			1.905*	1.132*
Poverty Level			0.095	-0.290
Model Fitness				
AIC	1,291,299	1,268,913	1,291,344	1,268,998
BIC	1,291,308	1,268,922	1,291,353	1,269,008
Variance (Intercept)	0.030	0.023	0.024	0.021

* $p<0.05$

Table S4. Multilevel Models Predicting Variation in GENHLTH among Elderly Populations

Variable	Model 1	Model 2	Model 3	Model 4
Intercept	1.156*	2.349*	1.619*	2.677*
Individual Level Variables				
Gender				
Men		-0.262*		-0.262*
Women (Ref.)		--		--
Marital Status				
Divorced/Widowed/Separated /Never Married		-0.018		-0.019
Married/Unmarried Couple (Ref.)		--		--
Race				
Other		-0.277*		-0.278*
Black or African American		-0.368*		-0.361*
White (Ref.)		--		--
Education				
Did not graduate High School		-0.957*		-0.950*
Graduated High School		-0.454*		-0.454*
Attend College or Technical School		-0.302*		-0.301*
Graduate from College or Technical School (Ref.)		--		--
Annual Household Income ($)				
Less than 15000		-1.462*		-1.457*
15000 to 25000		-1.000*		-0.998*
25000 to 35000		-0.646*		-0.646*
35000 to 50000		-0.365*		-0.366*
Larger than 50000 (Ref.)		--		--
MMSA Level Variable				
Age Segregation			0.014*	0.001
Total Population			0.000	-0.000
Area (km^2)			-0.000	-0.000
Education Level			-3.446*	-1.736*
Poverty Level			-1.568*	-0.853
Model Fitness				
AIC	331,348	341,499	331,468	341,630
BIC	331,357	341,508	331,478	341,640
Variance (Intercept)	0.056	0.017	0.031	0.013

* $p<0.05$