

Supplemental results

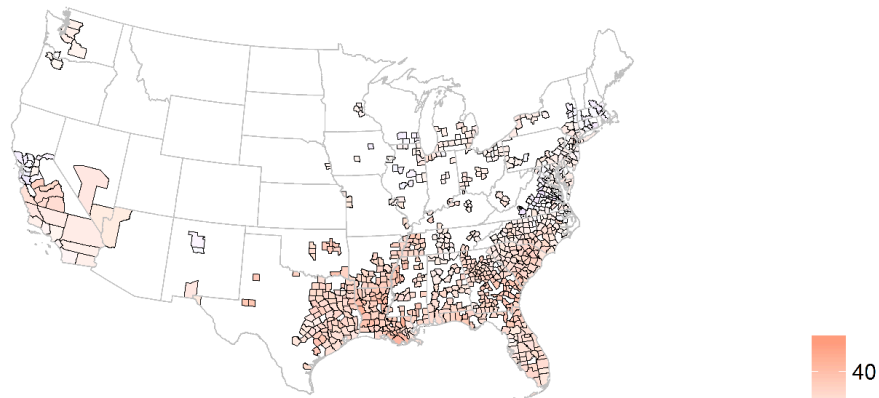
Table S1. Distribution of the features of each construct of determinants of health, overall and by geographical regions.

Variable	Weight	All	Midwest	Northeast	South	West
Health Behaviors						
Adult smoking (%)	0.1	18.6	18.5	16	19.4	13.8
Adult obesity (%)	0.05	31.2	30.8	26.5	32.4	24.9
Excessive drinking (%)	0.03	16.1	18.7	18.2	15.2	18.3
Alcohol driving death (%)	0.03	30.8	32.4	28.3	30.8	31.8
Sexually transmitted infections (# per 100,000)	0.03	458.4	461.5	351.9	476.2	402.5
Teen births (# per 1,000)	0.03	43.5	35.4	22.8	48.3	34.1
Food environment index	0.02	6.8	7.1	7.9	6.6	7.4
Physical inactivity (%)	0.02	27.4	25.1	23.6	29	17.9
Access to exercise (%)	0.01	68.4	81.6	87.6	62.2	87.1
Clinical Care						
Uninsured (%)	0.05	17.7	12.9	11.1	19.3	18.3
Preventable hospital stays (# per 1,000)	0.05	62.2	60.6	56.6	64.9	40.3
Primary care physicians ratio	0.03	2327.8	1577.9	1473.8	2629.3	1493.8
Diabetic monitoring (%)	0.03	85	86.2	86.1	84.8	82
Mammography screening (%)	0.03	61.9	64.2	63.6	61.5	59.6
Dentist ratio	0.01	3040.8	1986.1	1576.2	3516.7	1640.7
Mental health provider ratio	0.01	2207.5	765	694.5	2781.7	453.5
Social Economic Factors						
Unemployment (%)	0.1	6.8	6.2	6.3	6.9	7.8
Children in poverty (%)	0.08	25.4	21.7	18.3	27.3	21.5
High school graduation (%)	0.05	82.1	84.1	84.3	81.5	82.4
Some college education (%)	0.05	56.5	64.7	64.7	53.6	61.2
Income ratio	0.03	4.8	4.5	4.8	4.8	4.7
Single parents households (%)	0.03	37.4	35.1	32.4	38.8	31.8
Social association rate (# per 10,000)	0.03	11.5	12	10.4	11.9	6.7
Violent crime rate (# per 100,000)	0.03	373	378.4	319.5	376.8	402.4
Injury death (# per 100,000)	0.03	69.3	61.7	53	73.4	59.6
Physical Environment (PE)						
Air pollution (PM2.5)	0.03	11.8	12.6	11.6	11.9	9.2
Severe housing problems (%)	0.02	16.5	15	18.6	16	23.7
Driving alone (%)	0.02	80.9	82.6	75	81.8	74.2
Long commuting driving alone (%)	0.01	33.3	26.9	35.4	34.2	31.2

Table S2. Distribution of prevalence of AHM non-adherence measures by geographical regions.

	Non-adherence prevalence (%)				
	All	Midwest	Northeast	South	West
Overall	27.18 (26.93; 27.44)	22.48 (22.04; 22.92)	22.62 (22.03; 23.20)	28.68 (28.43; 28.92)	25.82 (24.83; 26.81)
White	25.41 (25.20; 5.63)	21.58 (21.19; 21.98)	21.46 (21.04; 21.89)	26.68 (26.48; 26.89)	24.03 (23.36; 24.69)
Black	34.50 (34.29; 34.72)	32.21 (31.83; 32.59)	31.90 (31.45; 32.36)	35.43 (35.18; 35.67)	31.95 (31.06; 31.85)
Racial disparity measure Prevalence rate ratio (PRR)	1.37 (1.36; 1.37)	1.50 (1.48; 1.53)	1.49 (1.47; 1.52)	1.33 (1.33; 1.34)	1.33 (1.30; 1.37)

Black



White

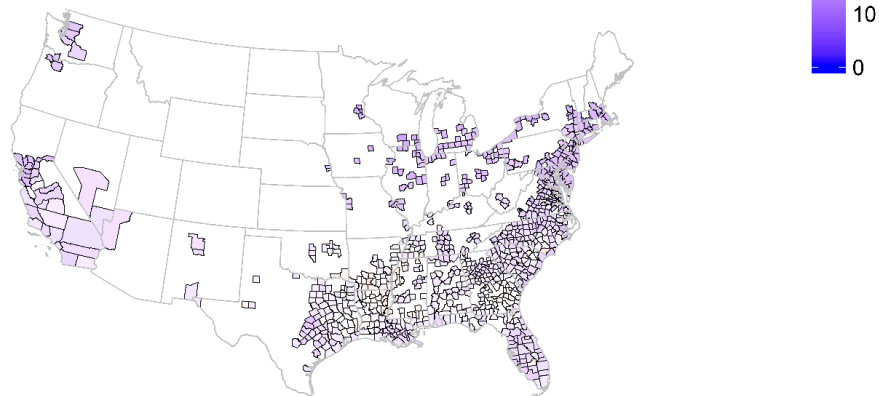


Figure S1. Spatial distribution of AHM non-adherence prevalence for BAAs and nHWs among 875 counties in the US.