

S2 Table. Results of county-level analyses using general linear mixed modeling to quantify associations between disease (Lyme disease, human monocytic ehrlichiosis), six racial/ethnic and socioeconomic variables (socioeconomic variables), and their interaction in predicting disease incidence.

Variable	Test of interaction terms	
	Coefficient, SE	P value
Disease	1.8071, 0.0675	<0.0001
Percent of housing units vacant	0.1307, 0.0515	0.0111
Percent of housing units vacant X Disease	0.0955, 0.0650	0.1423
Disease	1.6665, 0.0656	<0.0001
Percent of population living below the poverty line	0.6150, 0.0546	<0.0001
Percent of population living below the poverty line X Disease	-1.2761, 0.0700	<0.0001
Disease	1.7937, 0.0677	<0.0001
Percent of population classified as white, non-Hispanic	0.0845, 0.0622	0.1742
Percent of population classified as white, non-Hispanic X Disease	0.2238, 0.0724	0.0020
Disease	1.6094, 0.0661	<0.0001
Percent of population with a bachelors degree or higher	-0.5011, 0.0465	<0.0001
Percent of population with a bachelors degree or higher X Disease	0.9933, 0.0588	<0.0001
Disease	1.8524, 0.0680	<0.0001
Percent of population unemployed	0.4198, 0.0683	<0.0001
Percent of population unemployed X Disease	-0.6408, 0.0775	<0.0001
Disease	1.8419, 0.0689	<0.0001
Per capita number of property crimes	0.0357, 0.0536	0.5057
Per capita number of property crimes X Disease	-0.2063, 0.0684	0.0026