

Appendix A

The tables below present results from sensitivity analyses in which we additionally controlled for the region of residence.

Table 1: Overall and race-specific IMR ratios (RR) and 95% confidence intervals (CI) for associations with structural racism indicators among the total county population, and by urban-rural areas in the US, 2013-2017

	Overall IMR		Black IMR		White IMR	
	aRR	95% CI	aRR	95% CI	aRR	95% CI
All counties (N=1221)						
<i>Educational attainment</i>	0.99	(0.95; 1.03)	1.01	(0.96; 1.06)	0.94 ^b	(0.89; 0.98)
<i>Median household income</i>	1.01	(0.97; 1.04)	1.01	(0.97; 1.06)	0.95 ^a	(0.91; 0.99)
<i>Jail incarceration rate</i>	0.96 ^b	(0.93; 0.99)	1.04	(0.99; 1.09)	0.95 ^a	(0.91; 0.99)
<i>Overall structural racism</i>	0.99	(0.95; 1.03)	1.03	(0.98; 1.08)	0.93 ^b	(0.89; 0.98)
Urban counties (N=775)						
<i>Educational attainment</i>	1.01	(0.97; 1.0)	1.02	(0.97; 1.08)	0.93 ^b	(0.89; 0.97)
<i>Median household income</i>	1.02	(0.98; 1.06)	1.05	(0.99; 1.10)	0.95 ^a	(0.90; 0.99)
<i>Jail incarceration rate</i>	0.94 ^b	(0.90; 0.98)	1.03	(0.97; 1.09)	0.94 ^b	(0.90; 0.99)
<i>Overall structural racism</i>	1.00	(0.96; 1.05)	1.05	(0.99; 1.11)	0.93 ^a	(0.88; 0.99)
Rural counties (N=436)						
<i>Educational attainment</i>	0.98	(0.90; 1.05)	1.01	(0.90; 1.15)	1.00	(0.90; 1.11)
<i>Median household income</i>	0.98	(0.90; 1.07)	0.95	(0.85; 1.07)	0.97	(0.87; 1.08)
<i>Jail incarceration rate</i>	0.96	(0.89; 1.03)	1.06	(0.95; 1.19)	0.89 ^a	(0.81; 0.97)
<i>Overall structural racism</i>	0.96	(0.86; 1.03)	0.95	(0.84; 1.08)	0.91	(0.80; 1.04)

Note: IMR=infant mortality rate; aRR=rate ratios adjusting for county-level poverty, population with a bachelor's degree or higher, county incarceration rate, and the region of residence; CI=confidence intervals.

^a $P < .05$; ^b $P < 0.01$.

Table 2. Linear regression coefficients (B) and 95% confidence interval (CI) for the associations between structural racism indicators and the absolute and relative racial inequity in IMR across all study counties, and by urban-rural areas in the US, 2013-2017.

	Absolute racial inequities in IMR (Black-White IMR difference)		Relative racial inequities in IMR (Black/White IMR ratio)	
	B	95% CI	B	95% CI
All counties (N=1221)				
<i>Educational attainment</i>	1.58 ^b	(0.57; 2.70)	0.43 ^b	(0.14; 0.73)
<i>Median household income</i>	0.82	(-0.13; 1.77)	0.29 ^a	(0.03; 0.54)
<i>Jail incarceration rate</i>	1.25 ^a	(0.29; 2.20)	0.34 ^b	(0.09; 0.59)
<i>Overall structural racism</i>	1.58 ^b	(0.53; 2.64)	0.44 ^b	(0.15; 0.74)
Urban counties (N=775)				
<i>Educational attainment</i>	1.25 ^a	(0.23; 2.27)	0.41 ^b	(0.11; 0.71)
<i>Median household income</i>	0.92	(-0.01; 1.85)	0.33 ^a	(0.04; 0.62)
<i>Jail incarceration rate</i>	1.17 ^a	(0.11; 2.22)	0.38 ^a	(0.07; 0.70)
<i>Overall structural racism</i>	1.39 ^b	(0.34; 2.45)	0.44 ^b	(0.11; 0.77)
Rural counties (N=436)				
<i>Educational attainment</i>	1.71	(-1.46; 4.87)	0.09	(-0.34; 0.53)
<i>Median household income</i>	0.08	(-2.67; 2.83)	0.19	(-0.32; 0.70)
<i>Jail incarceration rate</i>	2.46	(-0.25; 5.17)	0.38	(0.17; 0.93)
<i>Overall structural racism</i>	2.89	(-0.16; 5.96)	0.54	(-0.07; 1.15)

Note: IMR=infant mortality rate; aRR=rate ratios adjusting for county-level poverty, population with a bachelor's degree or higher, county incarceration rate, and the region of residence;

CI=confidence intervals.

^a $P < .05$; ^b $P < 0.01$.