

Supplemental Table 1. Bayesian conditional autoregressive Poisson model for counts of suicides within 3,131 US counties over 17 years (n = 53,227). Exposures of interest replace with alternate measures of casinos and other gambling outlets.

	Model S1			Model S2			Model S3			Model S4			Model S5		
	IRR	95% CrI		IRR	95% CrI		IRR	95% CrI		IRR	95% CrI		IRR	95% CrI	
Casinos															
Casinos per 100,000 population (square root)	1.017	1.010	1.023												
Other gambling outlets per 100,000 population (square root)	1.003	0.997	1.010												
Casinos per 100,000 population (square root) * Other gambling outlets per 100,000 population (square root)	1.000	0.999	1.001												
Casinos per 100,000 population				1.001	1.000	1.002									
Casinos (count)							1.001	1.000	1.002						
Casinos (categorical)															
1 casino										1.021	0.998	1.044			
2 or 3 casinos										1.027	1.011	1.044			
4+ casinos										1.048	1.028	1.068			
Casinos per 100,000 population (square root)													1.014	1.008	1.021
Other Gambling Outlets															
Other gambling outlets per 100,000 population				1.003	1.001	1.004									
Other gambling outlets (count)							1.000	0.999	2.002						
Other gambling outlets (categorical)															
1 outlet										1.000	0.000	8.73E+26			
2 or 3 outlets										0.995	0.975	1.015			
4+ outlets										1.002	0.985	1.018			
Other gambling outlets per 100,000 population (square root)													1.003	0.997	1.009

Bolded values are statistically significant at an alpha of 0.05

Models adjusted for the following confounders: age, sex, race, income, poverty, employment, population density, and rural/urban

Supplemental Table 2. Mean suicide and casino counts by year for 3,131 US counties over 17 years

Year	Casinos per 100,000 population				Other gambling outlets per 100,000 population				Suicides			
	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max
2000	2.7	27.4	0.0	1370.4	1.7	8.0	0.0	249.7	9.3	25.4	0.0	689.0
2001	2.7	25.9	0.0	1282.8	1.7	8.1	0.0	250.3	9.7	26.5	0.0	743.0
2002	2.9	23.9	0.0	1131.9	2.0	9.2	0.0	267.0	10.0	27.7	0.0	734.0
2003	2.8	22.5	0.0	1068.4	2.2	10.8	0.0	274.3	10.0	27.3	0.0	728.0
2004	3.0	24.0	0.0	1152.0	2.3	11.3	0.0	281.3	10.3	27.5	0.0	697.0
2005	3.2	23.7	0.0	1133.8	2.4	11.9	0.0	295.4	10.3	27.6	0.0	698.0
2006	3.2	22.0	0.0	993.2	3.0	14.3	0.0	304.0	10.6	27.5	0.0	671.0
2007	3.3	21.3	0.0	966.5	3.1	14.5	0.0	296.3	10.9	29.1	0.0	687.0
2008	2.9	21.3	0.0	1030.9	2.9	14.1	0.0	307.7	11.4	30.9	0.0	810.0
2009	2.8	18.6	0.0	856.5	3.0	14.2	0.0	292.0	11.7	31.1	0.0	787.0
2010	2.9	19.7	0.0	933.6	3.0	14.3	0.0	302.6	12.2	32.0	0.0	809.0
2011	3.0	21.5	0.0	1046.4	3.1	14.8	0.0	309.1	12.5	32.4	0.0	778.0
2012	3.3	23.2	0.0	1118.7	3.0	14.2	0.0	307.2	12.9	33.5	0.0	769.0
2013	2.9	22.5	0.0	1130.7	3.1	14.6	0.0	358.9	13.1	33.6	0.0	798.0
2014	2.9	19.5	0.0	940.0	3.1	14.0	0.0	273.5	13.6	34.8	0.0	818.0
2015	2.8	19.5	0.0	937.3	2.9	13.4	0.0	257.3	14.0	35.4	0.0	823.0
2016	2.8	18.6	0.0	882.2	2.8	13.1	0.0	257.3	14.3	36.2	0.0	843.0

Supplemental Figure 1. Mean suicide and casino counts by year for 3,131 US counties over 17 years

