

Table 2: Mixed effect linear regression model showing a significant association between the Proportion of Firearm Ownership by State and Firearm Fatality Rate (per 100,000)

Characteristic	Unadjusted Model			Intermediate Model			Full Model		
	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value	Beta	95% CI ¹	p-value
Firearm ownership quartiles by state ²									
Lowest	—	—		—	—		—	—	
Second	3.7	0.73, 6.6	0.016	3.8	0.82, 6.8	0.014	6.0	3.0, 9.0	<0.001
Third	9.1	6.2, 12	<0.001	9.2	6.3, 12	<0.001	11	8.1, 14	<0.001
Highest	11	7.6, 14	<0.001	11	7.7, 14	<0.001	12	9.1, 15	<0.001
Mental health providers ratio ³				0.13	-0.02, 0.28	0.094	0.23	0.08, 0.39	0.004

All models corrected for county population. Full model corrected for rurality, ratio of primary care physicians per 1,000 people, unemployment %, without health insurance %, high school graduation %, Residential segregation index, Poverty indicator (USDA PAM HiPov1519)

¹ CI = Confidence Interval

² Proportion of state population that owns firearms, categorized by quartiles.

³ Ratio of primary care physicians per 1000 people.