

Supplemental material

Appendix 1 Multivariate multiple-linear regression analysis of initial data

Factor (reference zone H2)	Regression coefficient [95% CI]	p value
Zone H1a	14.6 [3.8 to 25.4]	0.00962
Zone H1b	37.2 [27.6 to 46.9]	4.39×10 ⁻¹¹
Zone H1c	6.0 [-2.7 to 14.9]	0.183
Zone H3	6.9 [-6.9 to 20.8]	0.329
Population density >3 rd quartile	0.003 [0.001 to 0.004]	0.000229
Age >59 y >3 rd quartile	-0.97 [-1.7 to -0.1]	0.0208
Male sex, % >3 rd quartile	5.2 [-2.5 to 13.1]	0.187

Appendix 2 Multivariate multiple-linear regression analysis excluding outliers

Factor (reference zone H2)	Regression coefficient [95% CI]	p value
Zone H1a	15.2 [6.6 to 23.8]	0.000785
Zone H1b	30.4 [22.1 to 37.9]	7.65×10 ⁻¹¹
Zone H1c	6.8 [-0.1 to 13.8]	0.0574
Zone H3	3.4 [-7.5 to 14.4]	0.539
Population density >3 rd quartile	0.004 [0.002 to 0.006]	0.00028
Age >59 years >3 rd quartile	-0.6 [-1.3 to -0.04]	0.0404
Male sex, % >3 rd quartile	0.6 [-5.6 to 6.9]	0.838