**Appendix Table.** Incidence rate ratio of variables and pneumonia hospitalization risk

|  |  |  |
| --- | --- | --- |
| Variable | Incidence Rate Ratio (CI) | P value |
| Nitrogen dioxide (ppb) |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 1.557 (1.316, 1.842) | <0.001 |
|  Q3  | 1.366 (1.164, 1.604) | <0.001 |
|  Q4  | 1.435 (1.220, 1.688) | <0.001 |
| Median household income |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 0.979 (0.809, 1.184) | 0.825 |
|  Q3 | 0.845 (0.703, 1.015) | 0.071 |
|  Q4 | 0.645 (0.541, 0.769) | <0.001 |
| Race/ethnic diversity index (adjusted for income) |
|  Q1 (reference) | 1.0 |  |
|  Q2  | 1.207 (1.035, 1.408) | 0.016 |
|  Q3 | 1.130 (0.948, 1.348) | 0.173 |
|  Q4  | 1.061 (0.852, 1.323) | 0.596 |
| Education (adjusted for income) |
|  Q1 (reference) | 1.0  |  |
|  Q2 | 1.395 (1.184, 1.642) | <0.001 |
|  Q3 | 1.642 (1.378, 1.956) | <0.001 |
|  Q4 | 1.607 (1.280, 2.018) | <0.001 |
| Unemployment rate |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 1.059 (0.892, 1.257) | 0.511 |
|  Q3 | 1.202 (1.026, 1.408) | 0.023 |
|  Q4 | 1.223 (1.025, 1.458) | 0.025 |
| Uninsured (adjusted for income) |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 0.791 (0.667, 0.938) | 0.007 |
|  Q3 | 0.837 (0.695, 1.008) | 0.061 |
|  Q4 | 0.755 (0.622, 0.917) | 0.005 |
| % Below the poverty line |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 0.954 (0.825, 1.102) | 0.519 |
|  Q3 | 1.042 (0.885, 1.227) | 0.623 |
|  Q4 | 1.191 (1.005, 1.411) | 0.043 |
| Solar insolation |
|  Q1 (reference) | 1.0 |  |
|  Q2 | 1.158 (0.993, 1.351) | 0.062 |
|  Q3 | 1.190 (1.026, 1.381) | 0.022 |
|  Q4 | 1.473 (1.253, 1.730) | <0.001 |

CI, confidence interval; ppb, parts per billion