**Supplementary Material 5.** Cumulative effectsa of PM10, NO2, SO2, and CO levels up to 7 days on pneumonia, estimated from distributed lag linear models

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PM10 | | |  | NO2 | | |  | SO2 | | |  | CO | | |
|  | Singleb |  | Multic |  | Singleb |  | Multic |  | Singleb |  | Multic |  | Singleb |  | Multic |
|  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |  | RR  (95% CI) |
| 0–4 years | 1.01  (1.01, 1.02) |  | 1.01  (1.00, 1.02) |  | 1.01  (1.00, 1.02) |  | 1.00  (0.99, 1.02) |  | 1.01  (1.00, 1.01) |  | 1.01  (1.00, 1.01) |  | 1.01  (1.00, 1.02) |  | 0.99  (0.98, 1.01) |
| 5–9 years | 1.01  (1.00, 1.02) |  | 0.99  (0.98, 1.01) |  | 0.99  (0.97, 1.02) |  | 0.96  (0.93, 0.99) |  | 1.00  (0.99, 1.01) |  | 0.99  (0.98, 1.00) |  | 1.10  (1.07, 1.13) |  | 1.15  (1.12, 1.19) |
| 10–14 years | 1.01  (0.99, 1.03) |  | 1.01  (0.99, 1.04) |  | 0.96  (0.92, 1.00) |  | 0.91  (0.87, 0.95) |  | 0.98  (0.97, 1.00) |  | 0.97  (0.95, 0.98) |  | 1.10  (1.06, 1.14) |  | 1.18  (1.13, 1.24) |
| 15–19 years | 1.00  (0.98, 1.03) |  | 1.00  (0.97, 1.03) |  | 0.99  (0.93, 1.04) |  | 0.96  (0.90, 1.03) |  | 0.98  (0.96, 1.00) |  | 0.96  (0.94, 0.98) |  | 1.08  (1.03, 1.14) |  | 1.16  (1.09, 1.24) |

Abbreviations: RR, relative risk; CI, confidence interval

aResults are presented by 10.0 ppb increment for NO2, 10.0 µg/m3 increment for PM10, 1.0 ppb increment for SO2, and 0.2 ppm increment for CO.

bEstimated using quasi-Poisson regression models adjusted for region, day, temperature, relative humidity, and population.

cEstimated using quasi-Poisson regression models adjusted for region, day, temperature, relative humidity, and population and with terms for air pollutants (ozone, PM10, NO2, SO2, and CO).