Supplementary material 1

Table. Relationship between respiratory diseases with PM2.5 quintiles in children under 5 years in Lima-Peru\*.

|  |  |  |  |
| --- | --- | --- | --- |
| Health center outpatients visits | District | RR\*IQR | 95% CI |
| ALRI <2m | SJL | 1.07\*\* | 1.01 | 1.13 |
| San Martin de Porres | 1.01 | 0.87 | 1.16 |
| Ate | 1.08 | 0.99 | 1.18 |
| Comas | 1.04 | 0.93 | 1.16 |
| Villa María del Triunfo | 1.06 | 0.95 | 1.19 |
| Villa El Salvador | 1.13\*\* | 0.99 | 1.29 |
| San Juan de Miraflores | 1.03 | 0.90 | 1.19 |
| Puente Piedra | 1.17\*\* | 1.04 | 1.32 |
| Carabayllo | 1.11\*\* | 1.00 | 1.22 |
| Los Olivos | 1.10 | 0.94 | 1.29 |
| ALRI 2-11m | SJL | 1.11\*\* | 1.06 | 1.15 |
| San Martin de Porres | 1.05 | 0.9877 | 1.2103 |
| Ate | 1.09\*\* | 1.02 | 1.16 |
| Comas | 1.07 | 0.9911 | 1.1626 |
| Villa María del Triunfo | 1.06 | 0.9834 | 1.1499 |
| Villa El Salvador | 1.09\*\* | 1.01 | 1.19 |
| San Juan de Miraflores | 1.05 | 0.9702 | 1.1291 |
| Puente Piedra | 1.09\*\* | 1.01 | 1.19 |
| Carabayllo | 1.08\*\* | 1.02 | 1.15 |
| Los Olivos | 1.04 | 0.9459 | 1.1485 |
| ALRI 1-4a | SJL | 1.13\*\* | 1.08 | 1.18 |
| San Martin de Porres | 1.12\*\* | 1.02 | 1.23 |
| Ate | 1.09\*\* | 1.02 | 1.16 |
| Comas | 1.08 | 0.9875 | 1.1750 |
| Villa María del Triunfo | 1.08\*\* | 1.00 | 1.16 |
| Villa El Salvador | 1.13\*\* | 1.05 | 1.22 |
| San Juan de Miraflores | 1.06 | 0.9795 | 1.1400 |
| Puente Piedra | 1.09\*\* | 1.00 | 1.17 |
| Carabayllo | 1.11\*\* | 1.04 | 1.19 |
| Los Olivos | 1.10 | 0.998 | 1.219 |
| PNEU 2-11m | SJL | 1.13 | 0.96 | 1.34 |
| San Martin de Porres | 1.31 | 0.85 | 2.02 |
| Ate | 1.56\*\* | 1.13 | 2.14 |
| Comas | 1.03 | 0.71 | 1.49 |
| Villa María del Triunfo | 0.80 | 0.57 | 1.11 |
| Villa El Salvador | 0.95 | 0.62 | 1.43 |
| Puente Piedra | 0.99 | 0.68 | 1.46 |
| Carabayllo | 1.68 | 1.07 | 2.64 |
| Los Olivos | 1.55 | 0.87 | 2.79 |
| Santiago de Surco | 1.28 | 0.5076 | 3.2255 |
| PNEU 1-4a | SJL | 1.15\* | 1.01 | 1.30 |
| San Martin de Porres | 0.93 | 0.71 | 1.22 |
| Ate | 1.10 | 0.86 | 1.40 |
| Comas | 1.19 | 0.90 | 1.56 |
| Villa María del Triunfo | 0.84 | 0.64 | 1.11 |
| Villa El Salvador | 1.34 | 0.93 | 1.94 |
| San Juan de Miraflores | 1.04\* | 0.75 | 1.43 |
| Puente Piedra | 1.30 | 0.93 | 1.80 |
| Carabayllo | 0.93 | 0.65 | 1.33 |
| Los Olivos | 1.34 | 0.94 | 1.91 |
| Asthma <2a | SJL | 1.13\* | 1.06 | 1.20 |
| San Martin de Porres | 1.13 | 0.99 | 1.28 |
| Ate | 1.19\* | 1.10 | 1.29 |
| Comas | 1.12\* | 1.01 | 1.25 |
| Villa Maria del Triunfo | 1.05\* | 0.95 | 1.16 |
| Villa El Salvador | 1.10 | 0.99 | 1.21 |
| San Juan de Miraflores | 1.06 | 0.96 | 1.17 |
| Puente Piedra | 1.16\* | 1.03 | 1.32 |
| Carabayllo | 1.07 | 0.98 | 1.17 |
| Los Olivos | 1.23\* | 1.07 | 1.42 |
| Asthma 2-4a | SJL | 1.13\* | 1.06 | 1.22 |
| San Martin de Porres | 1.18\* | 1.04 | 1.34 |
| Ate | 1.10\* | 1.01 | 1.20 |
| Comas | 1.06 | 0.98 | 1.15 |
| Villa María del Triunfo | 1.15 | 1.03 | 1.28 |
| Villa El Salvador | 1.03\* | 0.93 | 1.14 |
| San Juan de Miraflores | 1.02 | 0.92 | 1.13 |
| Puente Piedra | 1.07 | 0.94 | 1.22 |
| Carabayllo | 1.11\* | 1.01 | 1.22 |
| Los Olivos | 1.03 | 0.89 | 1.19 |

\*Negative binomial Model adjusted by temperature, relative humidity, season, year and districts. Bold values denote statistical significance. ALRI= Acute Lower Respiratory Infections. PNEU=Pneumonia. RR= Rate ratio, CI= Confidence interval. IQR= Interquartile range (7.1 µg/m3). Average district-level PM2.5 during the same week (lag 0) was used as exposure.\*\*=p<0.05.