**Table S4:** Odds ratio for presenting to an emergency department with non-specific abdominal pain associated with an interquartile increase in an air pollutant concentration for 1- and 2-day lag stratified by gender among individuals aged 15-24 years. OR – odds ratio; CI – confidence interval; CO- carbon monoxide; NO2 – nitrogen dioxide; SO2 - sulphur dioxide; O3 - ozone; PM10 - particulate matter < 10 microns; PM2.5 - particulate matter < 2.5 microns; PPM - parts per million; PPB - parts per billion; mg/m3 - micrograms per meters cubed.

|  |  |  |
| --- | --- | --- |
|  | **Edmonton** | **Montreal** |
|  | **Males****OR (95% CI)** | **Females****OR (95% CI)** | **Males****OR (95% CI)** | **Females****OR (95% CI)** |
| CO (ppm) Lag 1 Day Lag 2 Day | 0.99(0.95-1.03)0.96(0.92-1.00) | 1.04(1.01-1.06)1.04(1.02-1.06) | 1.02(0.90-1.14)1.07(0.94-1.21) | 1.07(1.01-1.15)1.04(0.97-1.12) |
| NO2 (ppb) Lag 1 Day Lag 2 Day | 1.00(0.94-1.05)0.94(0.89-1.00) | 1.05(1.02-1.08)1.03(1.00-1.06) | 0.99(0.86-1.14)1.02(0.88-1.18) | 1.10(1.02-1.19)1.10(1.01-1.20) |
| SO2 (ppb) Lag 1 Day Lag 2 Day | 0.98(0.94-1.02)0.96(0.92-1.00) | 1.01(0.99-1.04)1.00(0.98-1.02) | 1.29(1.15-1.46)1.14(1.01-1.29) | 1.11(1.03-1.19)1.15(1.06-1.24) |
| O3 (ppb) Lag 1 Day Lag 2 Day | 1.04(0.96-1.12)1.12(1.03-1.21) | 0.97(0.92-1.01)0.98(0.94-1.03) | 1.18(1.02-1.37)1.10(0.95-1.27) | 1.08(0.98-1.18)1.15(1.05-1.26) |
| PM10 (mg/m3) Lag 1 Day Lag 2 Day | 1.02(0.97-1.07)0.97(0.92-1.02) | 1.02(1.00-1.05)1.01(0.98-1.04) | 0.96(0.81-1.14)1.06(0.90-1.26) | 0.96(0.87-1.06)1.04(0.94-1.16) |
| PM2.5 (mg/m3) Lag 1 Day Lag 2 Day | 1.02(0.97-1.07)1.01(0.96-1.07) | 1.04(1.01-1.07)1.02(0.99-1.05) | 1.05(0.95-1.17)1.08(0.97-1.20) | 1.09(1.03-1.16)1.10(1.04-1.17) |