

eTable 1. Estimated spatial and temporal variograms for each pollutant

	Model	Sill	Range <sup>a</sup>	Nugget	Equation <sup>b</sup>
<b>PM<sub>2.5</sub></b>					
Spatial Variogram	Spherical	0.25	31.98	0.02	$\gamma_s(h_s) \begin{cases} = 0.02+0.23[(3/2)(h_s/31.98)-(1/2)(h_s/31.98)^3], 0 < h_s \leq 31.98 \\ = 0.25, h_s > 31.98 \end{cases}$
Temporal Variogram	Spherical	0.27	3.60	0.08	$\gamma_t(h_t) \begin{cases} = 0.08 + 0.19[(3/2)(h_t/3.60)-(1/2)(h_t/3.60)^3], 0 < h_t \leq 3.60 \\ = 0.27, h_t > 3.60 \end{cases}$
<b>PM<sub>10</sub></b>					
Spatial Variogram	Spherical	0.25	38.83	0.03	$\gamma_s(h_s) \begin{cases} = 0.03+0.22[(3/2)(h_s/38.83)-(1/2)(h_s/38.83)^3], 0 < h_s \leq 38.83 \\ = 0.25, h_s > 38.83 \end{cases}$
Temporal Variogram	Spherical	0.27	3.65	0.06	$\gamma_t(h_t) \begin{cases} = 0.06 + 0.21[(3/2)(h_t/3.65)-(1/2)(h_t/3.65)^3], 0 < h_t \leq 3.65 \\ = 0.27, h_t > 3.65 \end{cases}$
<b>O<sub>3</sub></b>					
Spatial Variogram	Spherical	0.10	26.09	0.02	$\gamma_s(h_s) \begin{cases} = 0.02 + 0.08 [(3/2)(h_s/26.09)-(1/2)(h_s/26.09)^3], 0 < h_s \leq 26.09 \\ = 0.10, h_s > 26.09 \end{cases}$
Temporal Variogram	Spherical	0.11	2.15	0.04	$\gamma_t(h_t) \begin{cases} = 0.04 + 0.07[(3/2)(h_t/2.15)-(1/2)(h_t/2.15)^3], 0 < h_t \leq 2.15 \\ = 0.11, h_t > 2.15 \end{cases}$

<sup>a</sup> unit for spatial variogram is km and for temporal variogram is day.

<sup>b</sup> where  $\gamma_s$  and  $\gamma_t$  are the variogram functions for space and time, respectively;  $h_s$  and  $h_t$  are the distances in spatial and temporal dimensions, respectively.

eTable2. Odds ratios for C-reactive protein and particulates air pollution per IQR unit increase<sup>a</sup> by lag day in non-smokers (N=1,129 for PM<sub>10</sub>; N=786 for PM<sub>2.5</sub>)

Lag	PM <sub>10</sub>		PM <sub>2.5</sub>	
	Crude	Adjusted <sup>b</sup>	Crude	Adjusted <sup>b</sup>
	OR (95% CI)	OR (95% CI)	OR (95% CI)	OR (95% CI)
<b>Day 0</b>	0.93 (0.78 – 1.12)	0.91 (0.73 – 1.14)	1.11 (0.92 – 1.33)	0.98 (0.80 – 1.20)
<b>Day 1</b>	0.97 (0.79 – 1.18)	0.92 (0.72 – 1.18)	1.22 (0.98 – 1.51)	1.10 (0.85 – 1.42)
<b>Day 2</b>	1.02 (0.80 – 1.31)	1.07 (0.87 – 1.32)	1.24 (0.95 – 1.62)	1.21 (0.94 – 1.55)
<b>Day 3</b>	0.98 (0.82 – 1.19)	1.02 (0.85 – 1.23)	1.06 (0.87 – 1.31)	1.03 (0.85 – 1.25)
<b>Day 4</b>	1.08 (0.89 – 1.32)	1.12 (0.86 – 1.46)	1.16 (0.94 – 1.43)	1.13 (0.88 – 1.45)
<b>Day 5</b>	1.02 (0.87 – 1.20)	1.10 (0.90 – 1.34)	1.11 (0.94 – 1.32)	1.20 (0.95 – 1.52)
<b>Day 6</b>	0.94 (0.75 – 1.18)	0.99 (0.73 – 1.35)	0.96 (0.78 – 1.18)	1.06 (0.82 – 1.38)
<b>Day 7</b>	0.96 (0.79 – 1.16)	1.07 (0.82 – 1.41)	0.95 (0.79 – 1.15)	1.06 (0.80 – 1.39)

<sup>a</sup> The IQRs for PM<sub>10</sub> for lag day0 to lag day7 were 14.7, 15.5, 15.1, 16.3, 16.0, 16.0, 15.8, and 15.4 (µg/m<sup>3</sup>), respectively; for PM<sub>2.5</sub> were 9.1, 9.3, 9.2, 8.6, 9.0, 9.1, 8.7, and 8.7 (µg/m<sup>3</sup>), respectively.

<sup>b</sup> Adjusted for gestational week at sample collection, maternal BMI at enrolment, maternal age, race, education, parity, passive cigarette smoke exposure during early pregnancy, household income, season of sample collection, and year of enrolment (for PM<sub>10</sub>: 1997 to 2001; for PM<sub>2.5</sub>: 1999 to 2001).

eTable 3. Odds ratios for C-reactive protein (<8 vs ≥8 ng/ml), particulates and O<sub>3</sub> per IQR unit increase for non-smokers who were not exposed to ETS (N=422)

Pollutant/lag periods	Crude		Adjusted <sup>a</sup>
	IQRs	OR (95% CI)	OR (95% CI)
<b>PM<sub>10</sub> (µg/m<sup>3</sup>)</b>		N=422	N=396
Day 0-7	11.2	1.22 (0.85 – 1.75)	1.20 (0.72 – 2.01)
Day 0-21	9.0	1.39 (0.97 – 2.00)	1.50 (0.85 – 2.68)
Day 0-28	9.0	1.52 (1.07 – 2.17)	1.70 (0.91 – 3.17)
<b>PM<sub>2.5</sub> (µg/m<sup>3</sup>)</b>		N=335	N=310
Day 0-7	5.8	1.30 (0.96 – 1.75)	1.07 (0.66 – 1.72)
Day 0-21	5.0	1.51 (1.12 – 2.03)	1.20 (0.69 – 2.08)
Day 0-28	4.5	1.58 (1.17 – 2.13)	1.29 (0.75 – 2.20)
<b>O<sub>3</sub><sup>b</sup> (ppb)</b>		N=199	N=187
Day 0-7	8.6	1.24 (0.76 – 2.01)	1.40 (0.64 – 3.05)
Day 0-21	8.7	1.44 (0.78 – 2.65)	1.84 (0.65 – 5.27)
Day 0-28	7.7	1.39 (0.79 – 2.45)	1.38 (0.47 – 4.00)

<sup>a</sup> Adjusted for gestational week at sample collection, maternal BMI at enrolment, maternal age, race, education, parity, household income, season of sample collection (only adjusted in PM<sub>10</sub> and PM<sub>2.5</sub> models), and year of enrolment (for PM<sub>10</sub> and O<sub>3</sub>: 1997 to 2001; for PM<sub>2.5</sub>: 1999 to 2001) ; month of enrolment was also adjusted for in O<sub>3</sub> models.

<sup>b</sup> Restricted to participants enrolled in the study in the months of April -September only.