

**Supplementary Table S1 Pre-pregnancy distance to roadways and particulate matter exposures and risk ratios of spontaneous abortion stratified by gestational length among women in the Nurses' Health Study II (1990-2008).**

SAB/pregnancies	Fully Adjusted RR (95% CI) of SAB*		
	<8 Weeks 2520/35025	8–11 Weeks 2690/31622	12–19 Weeks 1389/28485
Distance to A1–A3 roadway, meters			
0–199	1.0 (Ref)	1.0 (Ref)	1.0 (Ref)
200+	0.97 (0.90, 1.05)	1.03 (0.95, 1.11)	0.98 (0.88, 1.08)
1-year average exposure per IQR increase†			
PM <sub>10</sub>	1.05 (1.00, 1.10)	1.01 (0.96, 1.06)	0.99 (0.92, 1.06)
PM <sub>2.5–10</sub>	1.05 (0.99, 1.11)	1.03 (0.98, 1.09)	1.05 (0.97, 1.13)
PM <sub>2.5</sub>	1.04 (0.98, 1.10)	0.98 (0.93, 1.03)	0.93 (0.86, 1.00)
2-year average exposure per IQR increase			
PM <sub>10</sub>	1.04 (0.98, 1.09)	1.00 (0.95, 1.05)	0.98 (0.91, 1.06)
PM <sub>2.5–10</sub>	1.04 (0.98, 1.11)	1.02 (0.97, 1.08)	1.05 (0.97, 1.13)
PM <sub>2.5</sub>	1.02 (0.96, 1.08)	0.97 (0.92, 1.02)	0.92 (0.85, 0.99)
Cumulative average exposure per IQR increase			
PM <sub>10</sub>	1.02 (0.97, 1.08)	1.00 (0.96, 1.05)	0.99 (0.92, 1.07)
PM <sub>2.5–10</sub>	1.04 (0.98, 1.10)	1.02 (0.97, 1.08)	1.06 (0.98, 1.14)
PM <sub>2.5</sub>	0.99 (0.94, 1.05)	0.98 (0.93, 1.03)	0.92 (0.86, 0.99)

PM: particulate matter, RR: risk ratio, SAB: spontaneous abortion. The reference group for SAB <8 weeks was all pregnancies, the reference group for SAB 8–11 weeks was all pregnancies lasting beyond 8 weeks and the reference group for SAB 12–19 weeks was all pregnancies lasting beyond 12 weeks.

\*Models are adjusted for age (continuous), smoking status (never, former, current, missing), year of pregnancy (continuous), BMI (categories), history of infertility (no, yes, and missing), current multivitamin use (no, yes and missing), marital status (married, not married), race (white and other), US region (Northeast, Midwest, West and South), census tract-level median income (continuous) and median home value (continuous).

†An IQR increase was 7.9 µg/m<sup>3</sup> for PM<sub>10</sub>, 5.8 µg/m<sup>3</sup> for PM<sub>2.5–10</sub> and 4.5 µg/m<sup>3</sup> for PM<sub>2.5</sub>.