

**Supplementary Table SIII Hazard ratios (HR) and 95% confidence intervals (CI) of primary or secondary ovulatory disorder indicated infertility risk by distance to road and particulate matter (PM) exposure from September 1993 to December 2003, among 36 294 women in the Nurses' Health Study II.**

Exposure	Primary infertility (nulliparous)			Secondary infertility (parous)		
	Cases	Basic HR 95% CI <sup>a</sup>	Multivariable HR 95% CI <sup>b</sup>	Cases	Basic HR 95% CI <sup>a</sup>	Multivariable HR 95% CI <sup>b</sup>
Distance to A1–A3 roads (m)						
0–199	112	1.14 (0.87–1.50)	1.17 (0.89–1.54)	63	1.02 (0.74–1.40)	1.03 (0.75–1.42)
200+	104	1.00 (referent)	1.00 (referent)	103	1.00 (referent)	1.00 (referent)
2-year average (10 µg/m <sup>3</sup> )						
PM <sub>10</sub>	216	0.99 (0.76–1.27)	0.99 (0.77–1.28)	166	1.27 (0.95–1.71)	1.27 (0.94–1.70)
PM <sub>2.5–10</sub>	216	0.93 (0.62–1.38)	0.93 (0.62–1.38)	166	1.58 (1.03–2.41)	1.58 (1.02–2.43)
PM <sub>2.5</sub>	216	1.06 (0.66–1.68)	1.09 (0.68–1.73)	166	1.10 (0.64–1.88)	1.10 (0.64–1.88)
4-year average (10 µg/m <sup>3</sup> )						
PM <sub>10</sub>	216	0.90 (0.67–1.20)	0.92 (0.69–1.23)	166	1.27 (0.90–1.78)	1.26 (0.89–1.78)
PM <sub>2.5–10</sub>	216	0.88 (0.56–1.36)	0.90 (0.58–1.39)	166	1.45 (0.89–2.35)	1.43 (0.87–2.34)
PM <sub>2.5</sub>	216	0.85 (0.51–1.42)	0.89 (0.53–1.49)	166	1.22 (0.67–2.21)	1.22 (0.67–2.23)
Cumulative average exposure (10 µg/m <sup>3</sup> )						
PM <sub>10</sub>	216	1.01 (0.80–1.29)	1.01 (0.79–1.29)	166	1.31 (1.00–1.72)	1.31 (0.99–1.72)
PM <sub>2.5–10</sub>	216	0.93 (0.64–1.35)	0.91 (0.63–1.32)	166	1.54 (1.05–2.27)	1.54 (1.04–2.27)
PM <sub>2.5</sub>	216	1.16 (0.75–1.81)	1.19 (0.77–1.86)	166	1.22 (0.74–2.02)	1.22 (0.73–2.03)

Note: Primary infertility is defined as cases occurring among nulliparous women, and secondary infertility is defined as cases occurring among previously parous women.

<sup>a</sup>Adjusted for age (in months), race (white, black, other race), calendar year, and region (Northeast, Midwest, West, South).

<sup>b</sup>Additionally adjusted for current BMI (continuous), smoking status (current, former, never, missing), OC use (never, past, current, missing), age at menarche (< 10, 10, 11, 12, 13, 14, 15, 16, 17, missing), overall diet quality (alternate healthy eating index, continuous), history of rotating shift work (ever, never), and Census tract level median income (continuous) and median home value (continuous).