

**Supplementary Table S1** Pearson correlation coefficients for ambient levels of air pollutants ( $n = 500$ ); the LIFE Study (2005–2009).

	SO <sub>2</sub>	O <sub>3</sub>	NO <sub>x</sub>	NO <sub>2</sub>	CO	PM <sub>10</sub>	PM <sub>2.5</sub>	AEC	ANH <sub>4</sub>	ANO <sub>3</sub>	AOC	ASO <sub>4</sub>
Day average 5 days prior to ovulation in first observed cycle <sup>a</sup>												
SO <sub>2</sub>	1											
O <sub>3</sub>	-0.09	1										
NO <sub>x</sub>	0.29	-0.30	1									
NO <sub>2</sub>	0.37	-0.28	0.85	1								
CO	0.19	-0.15	0.78	0.65	1							
PM <sub>10</sub>	-0.05	-0.11	0.29	0.29	0.36	1						
PM <sub>2.5</sub>	0.14	-0.03	0.37	0.39	0.44	0.61	1					
AEC	0.32	-0.14	0.55	0.59	0.39	0.26	0.50	1				
ANH <sub>4</sub>	0.05	0.16	0.18	0.22	0.16	0.29	0.61	0.42	1			
ANO <sub>3</sub>	0.07	-0.05	0.27	0.19	0.08	-0.03	0.27	0.33	0.50	1		
AOC	0.16	0.10	0.43	0.44	0.38	0.22	0.43	0.63	0.34	0.24	1	
ASO <sub>4</sub>	0.00	0.22	-0.01	0.09	0.09	0.38	0.59	0.24	0.84	0.06	0.19	1
Cycle average for first observed cycle												
SO <sub>2</sub>	1											
O <sub>3</sub>	-0.17	1										
NO <sub>x</sub>	0.42	-0.58	1									
NO <sub>2</sub>	0.48	-0.50	0.94	1								
CO	0.28	-0.38	0.69	0.66	1							
PM <sub>10</sub>	-0.20	-0.17	0.22	0.25	0.42	1						
PM <sub>2.5</sub>	0.18	-0.13	0.36	0.42	0.42	0.41	1					
AEC	0.51	-0.18	0.51	0.46	0.27	-0.12	0.46	1				
ANH <sub>4</sub>	0.10	0.18	0.13	0.15	-0.01	-0.001	0.46	0.36	1			
ANO <sub>3</sub>	0.11	-0.06	0.17	0.09	-0.21	-0.43	0.07	0.29	0.60	1		
AOC	0.18	-0.04	0.54	0.45	0.45	0.12	0.44	0.66	0.26	0.03	1	
ASO <sub>4</sub>	-0.07	0.32	-0.09	0.03	0.10	0.51	0.51	0.11	0.54	-0.24	0.16	1

SO<sub>2</sub>, sulfur dioxide; O<sub>3</sub>, ozone; NO<sub>x</sub>, nitrogen oxides; NO<sub>2</sub>, nitrogen dioxide; CO, carbon monoxide; PM<sub>10</sub>, particulate matter <10 µg/m<sup>3</sup>; PM<sub>2.5</sub>, fine particulate matter <2.5 µg/m<sup>3</sup>; AEC, elemental carbon; ANH<sub>4</sub>, ammonium; ANO<sub>3</sub>, nitrate; AOC, organic compounds; ASO<sub>4</sub>, sulfate.

<sup>a</sup>Excludes 60 participants who achieved pregnancy or were censored at the end of the entry cycle (ovulation date not assessed).