

Additional file 5. Associations between mean birth weight and an inter-quartile range in monitoring stations measurements, by pregnancy trimester (a)

Air pollution e metrics	Interquartile range	Number of subjects	Odds ratio for IQR increase in air pollution metrics	Low birth weight			Mean birth weight (c)			
	(IQR) in air pollution metrics(b)			95% confidence interval	p value	Change for IQR increase in air pollution metrics	95% confidence interval	p value		
NO ₂ , first trimester	13.80	68303	0.92	0.84	1.00	0.06	17.18	12.53	21.83	< 0.01
NO ₂ , second trimester	14.10	68303	0.88	0.80	0.96	< 0.01	24.62	19.84	29.41	< 0.01
NO ₂ , third trimester	14.12	68303	0.93	0.86	1.02	0.13	20.92	16.11	25.73	< 0.01
NO _x , first trimester	51.36	68303	0.96	0.89	1.04	0.33	10.08	5.52	14.63	< 0.01
NO _x , second trimester	49.52	68303	0.93	0.86	1.01	0.1	18.79	14.22	23.36	< 0.01
NO _x , third trimester	48.72	68303	0.98	0.91	1.06	0.62	14.41	9.91	18.91	< 0.01
NO, first trimester	40.12	68303	0.97	0.90	1.06	0.53	7.54	2.91	12.16	< 0.01
NO, second trimester	37.63	68303	0.95	0.88	1.03	0.24	16.37	11.81	20.94	< 0.01
NO, third trimester	36.84	68303	0.99	0.92	1.07	0.88	11.96	7.49	16.43	< 0.01
CO, first trimester	0.64	68303	0.98	0.91	1.05	0.52	11.06	6.82	15.30	< 0.01
CO, second trimester	0.62	68303	0.97	0.90	1.04	0.39	18.34	14.09	22.58	< 0.01
CO, third trimester	0.59	68303	0.97	0.91	1.04	0.45	14.47	10.43	18.51	< 0.01
PM ₁₀ , first trimester	9.29	68303	0.96	0.89	1.04	0.32	15.45	11.32	19.58	< 0.01
PM ₁₀ , second trimester	9.18	68303	0.95	0.88	1.02	0.17	19.19	14.97	23.42	< 0.01
PM ₁₀ , third trimester	9.11	68303	0.95	0.88	1.02	0.16	14.45	10.19	18.71	< 0.01
PM _{2.5} , first trimester	6.71	60907	0.98	0.90	1.07	0.71	15.32	10.62	20.02	< 0.01
PM _{2.5} , second trimester	6.47	62247	0.93	0.86	1.02	0.11	18.99	14.35	23.63	< 0.01
PM _{2.5} , third trimester	6.28	63624	0.94	0.86	1.02	0.11	15.36	10.84	19.89	< 0.01
O ₃ , first trimester	17.78	68303	1.03	0.94	1.13	0.54	-13.52	-18.69	-8.34	< 0.01
O ₃ , second trimester	17.46	68303	1.12	1.02	1.23	0.02	-23.53	-28.73	-18.32	< 0.01
O ₃ , third trimester	17.43	68303	1.07	0.98	1.17	0.15	-17.82	-22.98	-12.66	< 0.01

a) adjusted for maternal age, length of gestation and poverty using smoothing splines and race/ethnicity, insurance, gender and parity as categorical variables : see results in table 3

b) the units are parts per million for CO, parts per billion for NO, NO₂, NO_x, and O₃, and µg.m⁻³ for PM₁₀ and PM_{2.5}. Concentrations are averages, across each pregnancy trimester, derived from daily 24h- mean concentrations for NO₂, NO, NO_x, CO, PM₁₀ and PM_{2.5} and from daily mean concentrations from 10 am to 6 pm for O₃. The unit for traffic density is vehicle number per day/meter. The unit for distance to road is meters

c) in grams