

Supplementary materials

Table S1. Change in birthweight (g) for a 1 $\mu\text{g}/\text{m}^3$ increase in the average $\text{PM}_{2.5}$ during 1st, 2nd and 3rd pregnancy trimester, and for prenatal homelessness and the Special Supplemental Nutrition Program for Women, Infants and Children (WIC) participation status in Boston-based Children's HealthWatch cohort (N = 3366).

Variables	Change in birthweight (g) (95% CI)
Average $\text{PM}_{2.5}$ during 1st trimester	4.8 (-7.2, 16.9)
Average $\text{PM}_{2.5}$ during 2nd trimester	-8.5 (-19.3, 2.3)
Average $\text{PM}_{2.5}$ during 3rd trimester	-0.6 (-13.3, 12.2)
Ever homeless or live in shelter during pregnancy with this child	-55.7 (-97.8, -13.7)
Prenatal WIC participation with this child	36.1 (-7.3, 79.4)

Note: adjusted for maternal age, body mass index (BMI), race/ethnicity, nativity, education, smoking history, insurance, marital status, child gestational age and sex, seasonality, and median household income.

Table S2. Change in birthweight (g) for a 1 $\mu\text{g}/\text{m}^3$ increase in the average $\text{PM}_{2.5}$ during 2nd trimester across maternal and child characteristics in Boston-based Children’s HealthWatch cohort (N = 3366).

Groups	Change in birthweight (g) (95% CI)
Maternal nativity	
US born	-5.1 (-18.5, 8.2)
Immigrant	-14.4 (-31.7, 2.9)
Maternal Race/Ethnicity	
White, non-Hispanic	14.0 (-20.1, 48.1)
Hispanic	-8.8 (-27.5, 10.0)
Black, non-Hispanic	-15.2 (-29.4, -0.9)
Other	23.1 (-42.5, 88.6)
Maternal Education	
Some high school or less	-15.4 (-39.0, 8.2)
High school	-11.6 (-30.1, 6.9)
Tech School/College Graduate/Master’s	-3.8 (-18.9, 11.2)
Maternal Smoking	
Ever Smoked in the past 5 years	15.9 (-4.3, 36.2)
No smoking	-17.3 (-29.7, -4.8)
Marital status	
Single	-13.8 (-28.0, 0.4)
Married/Partnered/Cohabiting	-4.3 (-22.4, 13.8)
Separated/Divorced	5.1 (-26.2, 36.5)
Child sex	
Male	-12.5 (-27.0, 2.0)
Female	-4.0 (-19.4, 11.3)
Prenatal Homelessness	
No	-8.1 (-19.7, 3.5)
Yes	-10.8 (-37.4, 15.9)
WIC Participation	
No	-18.3 (-45.6, 9.1)
Yes	-6.9 (-18.5, 4.7)

Figure S1. Concentration-response function of the exposure to average PM_{2.5} during 2nd trimester ($\mu\text{g}/\text{m}^3$) on change in birthweight (g) in Boston-based Children's HealthWatch cohort (N = 3366).

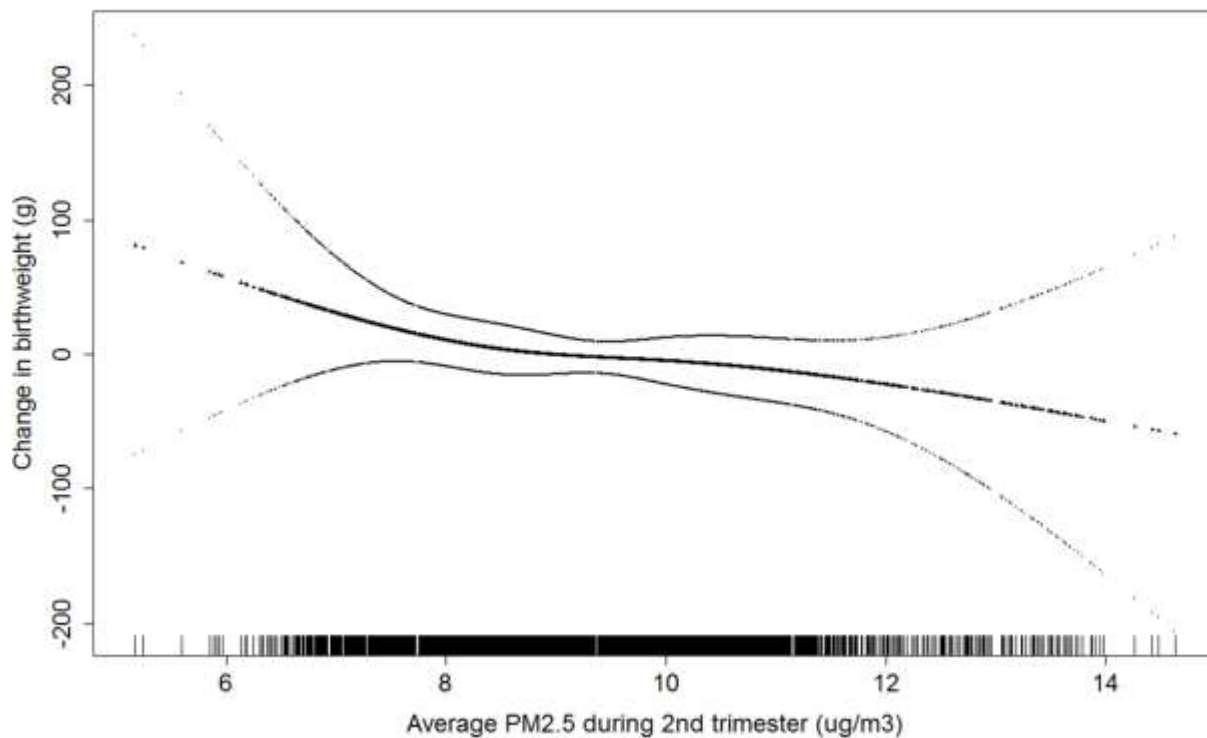


Figure S2. Concentration-response function of the exposure to average PM_{2.5} during 1st trimester ($\mu\text{g}/\text{m}^3$) on change in birthweight (g) in Boston-based Children's HealthWatch cohort (N = 3366).

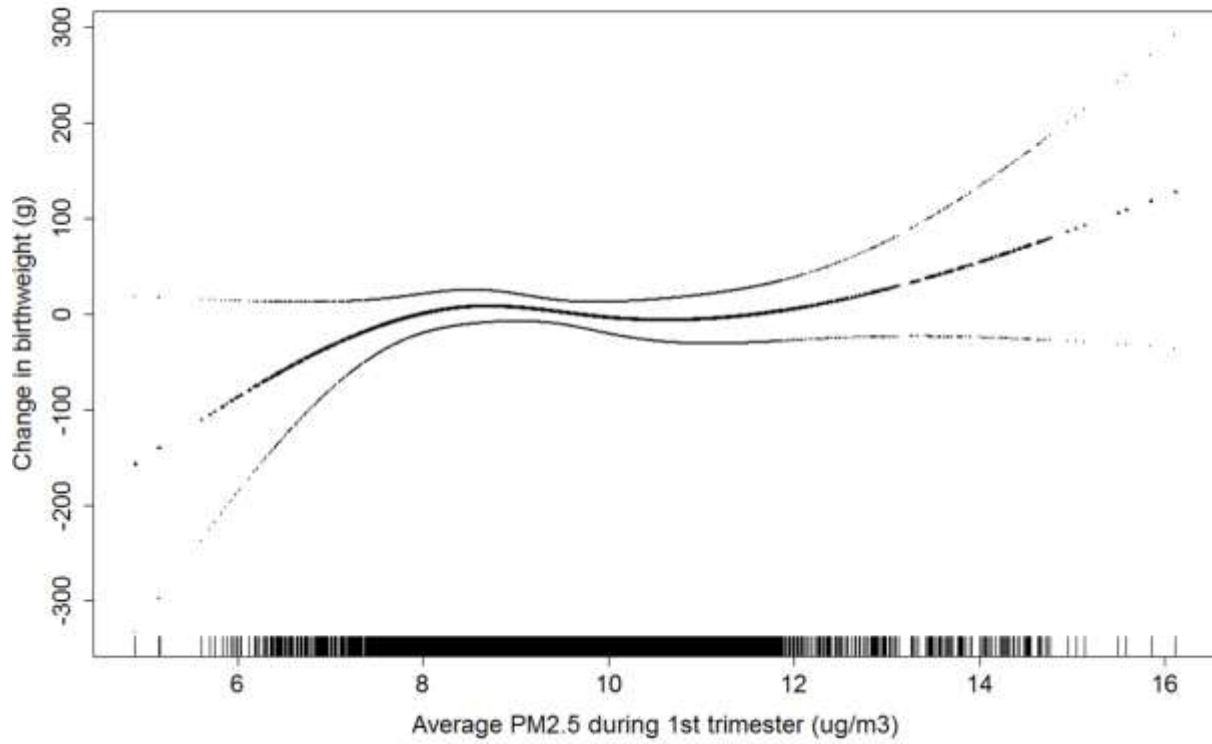


Figure S3. Concentration-response function of the exposure to average PM_{2.5} during 3rd trimester ($\mu\text{g}/\text{m}^3$) on change in birthweight (g) in Boston-based Children's HealthWatch cohort (N = 3366)

