

Supplementary

Supplementary Table S1. Summary of PM_{2.5} concentration (ug/m³) by each trimester of pregnancy of Cohort I.

| Exposure period | Mean | SD | Min | 25 th | 50 th | 75 th | Max |
|---------------------------|-------|------|-------|------------------|------------------|------------------|-------|
| Entire | 27.35 | 4.48 | 17.73 | 23.33 | 27.89 | 30.72 | 41.68 |
| 1 st trimester | 28.76 | 7.86 | 14.75 | 21.79 | 27.29 | 35.93 | 50.91 |
| 2 nd trimester | 26.59 | 6.77 | 13.74 | 20.99 | 26.20 | 32.22 | 44.74 |
| 3 rd trimester | 26.55 | 6.73 | 13.02 | 21.91 | 25.86 | 31.15 | 90.58 |

Supplementary Table S2. Subgroup analysis of comparison of PM_{2.5} exposure (ug/m³) by each trimester in the NBW and LBW at full term of cohort I.

| Exposure period | All newborns | | | Boys | | | Girls | | |
|---------------------------|------------------|----------------|----------------|-----------------|----------------|----------------|-----------------|----------------|----------------|
| | TNBW (n=1485) | TLBW (n=51) | <i>p-Value</i> | TNBW (n=743) | TLBW (n=22) | <i>p-Value</i> | TNBW (n=742) | TLBW (n=29) | <i>p-Value</i> |
| Entire | 27.25 ± 4.30 | 27.88 ± 4.12 | 0.30 | 27.38 ± 4.36 | 28.79 ± 4.26 | 0.13 | 27.11 ± 4.25 | 27.14 ± 3.91 | 0.97 |
| 1 st trimester | 28.91 ± 7.65 | 30.09 ± 8.00 | 0.28 | 29.20 ± 7.88 | 31.95 ± 8.72 | 0.10 | 28.63 ± 7.41 | 28.56 ± 7.15 | 0.96 |
| 2 nd trimester | 26.27 ± 6.80 | 27.00 ± 6.37 | 0.45 | 26.35 ± 6.74 | 28.32 ± 6.72 | 0.17 | 26.20 ± 6.87 | 25.92 ± 5.97 | 0.83 |
| 3 rd trimester | 26.38 ± 6.44 | 26.19 ± 6.30 | 0.83 | 26.35 ± 6.32 | 25.11 ± 5.30 | 0.35 | 26.38 ± 6.56 | 27.07 ± 6.99 | 0.59 |

Continuous variables were expressed as mean ± standard deviation (SD) and were compared using the *t*-test. TNBW, term normal birth weight; TLBW, term low birth weight