Supplementary material

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**Table 1. Adjusted β and 95% confidence intervals (95% CI) for the association between Tl during pregnancy, placental weight and** **birth weight (main analysis), and corresponding E-values.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Exposure | Outcome | Adjusted β (95% CI) \* | E-value | E-value (95% CI) |
| **First trimester** |  |  |  |  |
| Tertile of ln-Tl | Birth weight (g) | -42.7 (-82.3, -3.1) a | 1.43 | 1.09, +inf |
|  | Placental weight (g) | -8.1 (-13.4, -2.8) a | 1.57 | 1.28, +inf |
| Placental weight (g) | Birth weight (g) | 2.6 (2.4, 2.9) b | 1.08 | 1.07, +inf |
| **Third trimester** |  |  |  |  |
| Tertile of ln-Tl | Birth weight (g) | -50.6 (-99.0, -2.3) a | 1.50 | 1.12, +inf |
|  | Placental weight (g) | -7.1 (-14.0, -0.3) b | 1.52 | 1.07, +inf |
| Placental weight (g) | Birth weight (g) | 2.4 (2.0, 2.7) b | 1.08 | 1.07, +inf |

\* All effect sizes were adjusted for maternal age, maternal education, family income, gestational week, parity, gravidity, infant sex, vegetable consumption, and fruit consumption. a was estimated for the highest vs the lowest tertile of ln-Tl exposure, and b was estimated for each unit increase in placental weight.

First follow-up investigation during hospitalization for childbirth: A total of 4279 people completed the survey, and 1371 of them provided urine samples.

**The PEOH prospective birth cohort study**

Baseline investigation in the early pregnancy: A total of 4928 people completed the survey, and 2153 of them provided urine samples.

Early pregnancy

Middle pregnancy

Late pregnancy

Figure 1. The procedure of the Prenatal Environments and Offspring Health (PEOH) prospective birth cohort study.

![手机屏幕截图

描述已自动生成]()

Figure 2. The relationships among maternal urinary thallium levels in early pregnancy, placental weight, and birth weight.

![手机屏幕截图

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Figure 3. The relationships among maternal urinary thallium levels in late pregnancy, placental weight, and birth weight.