**Supplemental Table 1.** Sensitivity analysis to evaluate the potential for bias arising from using ultrasound measurements to estimate gestational age given the staggered enrollment into this cohort. We stratified the cohort at (<12 weeks pregnant versus 13-16 weeks pregnant) and used the same adjusted SEM models to estimate the indirect effect of arsenic exposure(measured in drinking water and toenails) on birthweight.

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| --- | --- | --- | --- |
| Mediation pathway | Overallβ Coefficient(95% CI) | <12 weeks pregnantβ Coefficient(95% CI) | 13-16 weeks pregnantβ Coefficient(95% CI) |
| Drinking water arsenic (µg/L) | N=1,140 | N=725 | N=415 |
| *Ln*(Arsenic)→Gestational age→Birth weight | -17.37(-22.77, -11.98) | -19.20(-27.05, -11.34) | -12.87(-20.85, -4.89) |
| *Ln*(Arsenic)→Maternal weight gain→ Birth weight | -1.80(-3.72, 0.13) | -1.56(-4.38, 1.25) | -2.90(-5.91, 0.10) |
| Toenail arsenic (µg/g) | N=624 | N=398 | N=226 |
| *Ln*(Arsenic)→Gestational age→ Birth weight | -13.59(-22.10, -5.07) | -7.13(-15.10, 0.85) | -21.27(-38.91, -2.63) |
| *Ln*(Arsenic)→Maternal weight gain→ Birth weight | -2.13(-5.24, 0.96) | -1.10(-4.22, 2.09) | -5.44(-15.83, 4.96) |