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| **Table S1.** Adjusteda change in weight z-score in association with an interquartile range difference in oxidative stress or inflammation biomarker. Estimates from models of biomarker concentrations at each study visit in relation to repeated measures of estimated fetal weight and birth weight. |
| Oxidative stress |  |  |  |  |
|  | n | 8-OHdG | 8-isoprostane |  |  |  |
| Visit 1 | 461 | 0.18 (0.02, 0.33)\* | -0.07 (-0.19, 0.04) |  |  |  |
| Visit 2 | 469 | -0.08 (-0.33, 0.16) | -0.05 (-0.18, 0.08) |  |  |  |
| Visit 3 | 469 | -0.05 (-0.24, 0.15) | -0.15 (-0.26, -0.03)\* |  |  |  |
| Visit 4b | 469 | 0.05 (-0.15, 0.25) | 0.02 (-0.10, 0.13) |  |  |  |
| Inflammation |  |
|  | n | CRP | IL-1β | IL-6 | IL-10 | TNF-α |
| Visit 1 | 404 | 0.00 (-0.13, 0.13) | -0.01 (-0.09, 0.07) | 0.04 (-0.04, 0.12) | 0.03 (-0.04, 0.11) | 0.01 (-0.08, 0.10) |
| Visit 2 | 462 | 0.00 (-0.13, 0.13) | -0.04 (-0.12, 0.04) | 0.01 (-0.07, 0.08) | 0.01 (-0.06, 0.08) | 0.02 (-0.07, 0.10) |
| Visit 3 | 467 | -0.04 (-0.16, 0.08) | -0.03 (-0.12, 0.06) | -0.01 (-0.09, 0.06) | -0.02 (-0.08, 0.05) | -0.01 (-0.09, 0.07) |
| Visit 4b | 468 | -0.13 (-0.23, -0.02)\* | -0.06 (-0.16, 0.04)  | -0.01 (-0.09, 0.07)  | -0.03 (-0.10, 0.05)  | -0.05 (-0.16, 0.06)  |
| \*p<0.05. aAll associations modeled with random intercept for participant and random slope for gestational age at ultrasound measurement and include fixed effects terms for urinary specific gravity (time-varying, oxidative stress models only), child sex, and maternal age, race, education level, and body mass index at visit 1. bModels using biomarkers measured at visit 4 did not include estimated fetal weight from ultrasounds prior to that time point. Abbreviations: 8-OHdG, 8-hydroxydeoxyguanosine; CRP, C-reactive protein. |

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| **Table S2.** Adjusteda change in weight z-score in association with an interquartile range difference in oxidative stress or inflammation biomarker. Estimates from repeated measures models of biomarker concentrations at each study visit in relation to repeated measures of estimated fetal weight and birth weight. Models stratified by fetal sex. |
| Oxidative stress |  |  |  |  |
|  | n | 8-OHdG | 8-isoprostane |  |  |  |
| Boys | 210 | 0.06 (-0.18, 0.30)  | 0.00 (-0.14, 0.14) |  |  |  |
| Girls  | 259 | -0.21 (-0.41, 0.00)\*  | -0.07 (-0.20, 0.07) |  |  |  |
| p (interaction) |  | 0.09 | 0.37 |  |  |  |
| Inflammation |  |
|  | n | CRP | IL-1β | IL-6 | IL-10 | TNF-α |
| Boys | 209 | -0.12 (-0.24, 0.01) | -0.12 (-0.23, -0.01)\*  | -0.05 (-0.14, 0.03) | -0.05 (-0.13, 0.04) | 0.00 (-0.14, 0.13) |
| Girls | 259 | -0.09 (-0.23, 0.05) | 0.01 (-0.11, 0.14) | 0.01 (-0.10, 0.11) | -0.01 (-0.10, 0.08) | 0.00 (-0.12, 0.13) |
| p (interaction) |  | 0.64 | 0.10 | 0.40 | 0.55 | 0.88 |
| \*p<0.05. aAll associations modeled with random intercept for participant and random slope for gestational age at ultrasound measurement and include fixed effects terms for urinary specific gravity (time-varying, oxidative stress models only), child sex, and maternal age, race, education level, and body mass index at visit 1. Abbreviations: 8-OHdG, 8-hydroxydeoxyguanosine; CRP, C-reactive protein. |