

Supplemental Digital Content 4. Phthalate metabolite concentration and odds of preschool ADHD by child sex, using partially and fully augmented product term models

| Adjusted for covariates ^a | | | | | | | | | |
|--------------------------------------|--------------------|-------|----------------------------------|-----------------------------------|----------------|----------------------------------|-----------------------------------|----------------|--|
| Phthalat e | Cases ^d | | Partially augmented ^b | | | Fully augmented ^c | | | |
| | boys | girls | Boys OR ^e (95% CI) | Girls OR ^e (95% CI) | p ^f | Boys OR ^e (95% CI) | Girls OR ^e (95% CI) | p ^f | |
| MEP | 142 | 111 | 1.03 (0.89, 1.19) | 1.03 (0.88, 1.21) | 0.97 | 1.03 (0.89, 1.19) | 1.03 (0.88, 1.21) | 0.99 | |
| MiBP | 142 | 111 | 1.17 (0.92, 1.50) | 0.97 (0.73, 1.29) | 0.33 | 1.16 (0.91, 1.49) | 0.98 (0.73, 1.30) | 0.36 | |
| MnBP | 142 | 111 | 1.42 (1.07, 1.88) | 0.93 (0.68, 1.28) | 0.05 | 1.41 (1.06, 1.87) | 0.94 (0.68, 1.30) | 0.07 | |
| MBzP | 142 | 111 | 1.20 (0.95, 1.53) | 1.06 (0.82, 1.37) | 0.47 | 1.19 (0.94, 1.52) | 1.06 (0.82, 1.38) | 0.53 | |
| ΣDEHP | 142 | 111 | 1.32 (1.00, 1.74) | 1.10 (0.78, 1.55) | 0.42 | 1.31 (0.99, 1.74) | 1.10 (0.78, 1.55) | 0.44 | |
| ΣDiNP | 142 | 111 | 1.22 (0.88, 1.68) | 1.17 (0.83, 1.64) | 0.86 | 1.22 (0.89, 1.69) | 1.16 (0.83, 1.62) | 0.81 | |

| Adjusted for covariates and correlated phthalates ^g | | | | | | | | | |
|--|--------------------|-------|----------------------------------|-----------------------------------|----------------|----------------------------------|-----------------------------------|----------------|--|
| Phthalat e | Cases ^d | | Partially augmented ^b | | | Fully augmented ^c | | | |
| | boys | girls | Boys OR ^e (95% CI) | Girls OR ^e (95% CI) | p ^f | Boys OR ^e (95% CI) | Girls OR ^e (95% CI) | p ^f | |
| MEP | 142 | 111 | | | | | | | |
| MiBP | 142 | 111 | 0.98 (0.71, 1.35) | 1.00 (0.71, 1.41) | 0.93 | 0.98 (0.71, 1.35) | 1.00 (0.71, 1.41) | 0.94 | |
| MnBP | 142 | 111 | 1.43 (0.97, 2.10) | 0.82 (0.51, 1.31) | 0.07 | 1.42 (0.97, 2.09) | 0.83 (0.52, 1.33) | 0.09 | |
| MBzP | 142 | 111 | 1.01 (0.74, 1.39) | 1.17 (0.84, 1.65) | 0.53 | 1.00 (0.73, 1.38) | 1.17 (0.83, 1.64) | 0.52 | |
| ΣDEHP | 142 | 111 | 1.28 (0.95, 1.73) | 1.03 (0.70, 1.51) | 0.37 | 1.27 (0.94, 1.72) | 1.03 (0.70, 1.52) | 0.41 | |
| ΣDiNP | 142 | 111 | 1.10 (0.78, 1.55) | 1.15 (0.79, 1.69) | 0.85 | 1.11 (0.78, 1.57) | 1.14 (0.78, 1.67) | 0.91 | |

^aAdjusted for specific gravity, analytic batch, child sex and maternal age, education, parity, depression during pregnancy, and maternal ADHD-like symptoms.

^bsex-interaction products for phthalate and for maternal education

^csex-interaction product terms for phthalate and all covariates

^dNumber with no missing exposure or covariates

^ePer 1 natural log-unit increase in biomarker

^fp for sex*phthalate interaction in linear regression model

^gAdjusted for specific gravity, analytic batch, child sex and maternal age, education, parity, depression during pregnancy, maternal ADHD-like symptoms, and additionally adjusted for correlated metabolites (a) MiBP, MnBP, and MBzP co-adjusted for one another; b) ΣDEHP and ΣDiNP co-adjusted for each other).