**Supplementary Material**

**Table S1.** Prenatal urinary organophosphorus pesticide metabolite concentration (nM/L) distribution in a nested case–cohort study of preschool attention-deficit hyperactivity disorder in the Norwegian Mother and Child Cohort (MoBa), birth years 2004–2008.

| OP Metabolite | Population | *N* | Geometric Mean | Geometric SD | Min | 25% | 50% | 75% | Max |
|---|---|---|---|---|---|---|---|---|---|
| DEP (nM/L) | Case | 259 | 13.5 | 2.31 | 1.15 | 7.71 | 12.9 | 23.4 | 162 |
| | Subcohort | 547 | 14.5 | 2.40 | 0.01 | 8.52 | 14.2 | 24.7 | 124 |
| DETP (nM/L) | Case | 259 | 3.57 | 4.07 | 0.12 | 1.14 | 3.61 | 9.38 | 184 |
| | Subcohort | 547 | 4.33 | 4.14 | 0.01 | 1.63 | 4.18 | 10.5 | 541 |
| ΣDEP (nM/L) | Case | 259 | 19.0 | 2.46 | 2.04 | 10.1 | 18.2 | 34.3 | 241 |
| | Subcohort | 547 | 21.1 | 2.58 | 0.02 | 11.5 | 19.7 | 37.3 | 581 |
| DMP (nM/L) | Case | 259 | 25.0 | 3.66 | 0.98 | 7.31 | 28.4 | 60.6 | 551 |
| | Subcohort | 547 | 31.6 | 3.74 | 0.03 | 11.0 | 37.5 | 80.2 | 1057 |
| DMTP (nM/L) | Case | 259 | 20.0 | 3.49 | 0.27 | 8.13 | 19.5 | 43.0 | 785 |
| | Subcohort | 547 | 26.5 | 3.88 | 0.01 | 10.4 | 22.9 | 60.2 | 1291 |
| DMDTP (nM/L) | Case | 259 | 2.86 | 3.34 | 0.19 | 1.33 | 2.41 | 5.05 | 276 |
| | Subcohort | 547 | 3.33 | 3.62 | 0.01 | 1.43 | 2.76 | 5.93 | 356 |
| ΣDMP (nM/L) | Case | 259 | 56.1 | 3.05 | 3.14 | 25.6 | 56.7 | 114 | 1363 |
| | Subcohort | 547 | 72.0 | 3.29 | 0.05 | 31.7 | 66.1 | 156 | 1979 |

Note: DEP, diethylphosphate; DETP, diethylthiophosphate; ΣDEP, sum of diethylphosphates; DMP, dimethyphosphate; DMTP, dimethylthiophosphate; DMDTP, dimethyldithiophosphate; ΣDMP, sum of dimethylphosphates. Values for concentrations below the LOQ were imputed. Values standardized to the geometric mean of specific gravity.

**Table S2.** Associations, based on alternative adjustment sets, between prenatal urinary organophosphorus pesticide metabolite concentrations and child's preschool ADHD in a nested case–cohort study of the Norwegian Mother, Father and Child Cohort (MoBa), birth years 2004–2008.

| OP Metabolite | Case | Sub-Cohort | $Log_{10}$OR (95% CI) | Case | Sub-Cohort | Q1 (ref) OR (95% CI) | Case | Sub-Cohort | Q2 OR (95% CI) | Case | Sub-Cohort | Q3 OR (95% CI) | Case | Sub-Cohort | Q4 OR (95% CI) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| $\sum DEP^0$ | 259 | 547 | 0.76 (0.52 1.09) | 72 | 129 | ref | 62 | 140 | 0.79 (0.52, 1.20) | 67 | 135 | 0.89 (0.59, 1.34) | 58 | 143 | 0.73 (0.48, 1.11) |
| $\sum DEP^1$ | 231 | 483 | 1.08 (0.67, 1.75) | 66 | 117 | ref | 56 | 124 | 0.96 (0.59, 1.56) | 58 | 115 | 1.13 (0.69, 1.85) | 51 | 127 | 0.94 (0.55, 1.61) |
| $\sum DEP^2$ | 258 | 538 | 1.07 (0.69, 1.67) | 71 | 129 | ref | 62 | 139 | 0.91 (0.59, 1.42) | 67 | 131 | 1.13 (0.72, 1.78) | 58 | 139 | 0.97 (0.60, 1.58) |

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ∑DEP[3] | 250 | 526 | 1.09 (0.69, 1.72) | 69 | 125 | ref | 62 | 137 | 0.93 (0.59, 1.46) | 64 | 127 | 1.10 (0.69, 1.74) | 55 | 137 | 0.94 (0.57, 1.54) |
| ∑DEP[4] | 256 | 526 | 1.08 (0.69, 1.69) | 71 | 127 | ref | 62 | 137 | 0.81 (0.52, 1.25) | 66 | 127 | 0.85 (0.54, 1.34) | 57 | 135 | 0.66 (0.40, 1.08) |
| ∑DEP[5] | 244 | 503 | 1.10 (0.69, 1.75) | 69 | 120 | ref | 60 | 131 | 0.95 (0.60, 1.52) | 61 | 122 | 1.10 (0.68, 1.76) | 54 | 130 | 0.96 (0.58, 1.60) |
| ∑DMP[0] | 259 | 547 | 0.65 (0.49, 0.88) | 77 | 124 | ref | 63 | 139 | 0.73 (0.48, 1.10) | 67 | 135 | 0.80 (0.53, 1.20) | 52 | 149 | 0.56 (0.37, 0.86) |
| ∑DMP[1] | 231 | 483 | 0.79 (0.53, 1.17) | 73 | 111 | ref | 52 | 127 | 0.75 (0.47, 1.19) | 59 | 119 | 0.88 (0.54, 1.42) | 47 | 126 | 0.75 (0.44, 1.26) |
| ∑DMP[2] | 258 | 538 | 0.72 (0.51, 1.04) | 77 | 123 | ref | 62 | 138 | 0.80 (0.52, 1.23) | 67 | 133 | 0.87 (0.56, 1.35) | 52 | 144 | 0.66 (0.41, 1.08) |
| ∑DMP[3] | 250 | 526 | 0.71 (0.49, 1.02) | 76 | 120 | ref | 59 | 133 | 0.81 (0.52, 1.25) | 65 | 131 | 0.85 (0.54, 1.34) | 50 | 142 | 0.66 (0.40, 1.08) |
| ∑DMP[4] | 256 | 526 | 0.75 (0.52, 1.08) | 77 | 122 | ref | 61 | 136 | 0.92 (0.59, 1.45) | 67 | 129 | 1.14 (0.72, 1.81) | 51 | 139 | 0.96 (0.59, 1.57) |
| ∑DMP[5] | 244 | 503 | 0.77 (0.53, 1.11) | 76 | 116 | ref | 56 | 130 | 0.79 (0.50, 1.23) | 63 | 126 | 0.87 (0.55, 1.39) | 49 | 131 | 0.73 (0.44, 1.22) |

Note: $Log_{10}$OR, OR per $log_{10}$-unit increase in concentration; ref, reference; Q1, quartile 1; Q2, quartile 2; Q3, quartile 3; Q4, quartile 4; CI, confidence interval; ∑DEP, sum of diethylphosphates metabolites; ∑DMP, sum of dimethylphosphates metabolites; OR, odds ratio. model 0, unadjusted; model 1 adjusted for maternal education, parity, maternal income dependency, maternal age, marital status, maternal ADHD-like symptoms, pesticide use, fruit consumption, raw vegetable consumption, and season; model 2 adjusted for maternal age, maternal education level, parity; model 3 adjusted for maternal income dependency, maternal education, and parity; model 4 adjusted for maternal age, maternal education, maternal ADHD-like symptoms, and parity; model 5 adjusted for maternal education, parity, maternal income dependency, maternal age, maternal ADHD-like symptoms, fruit consumption, and raw vegetable consumption; all models adjusted for specific gravity through standardization; All adjusted models were mutually adjusted for complementary DAP metabolte group.