|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental Table1. Participant characterstics among those included in or excluded from the analysis, and according to blood sampling period of OCPs | | | | | | | | | | | | | | | | | | | | | | |
| **Characteristics** | All participants (n = 514) | | | |  | Analysis in this study | | | | | | |  |  | Blood sampling periodof OCPs | | | | | | | |
|  | Included (n=333) | | |  | Excluded (n=181) | | | p-value |  | During pregnancy (n=217) | | |  | After delivery (n=116) | | | p-value |
| **n** |  | **Mean±SD No.(%)** | |  | **n** | **Mean±SD No.(%)** | |  | **n** | **Mean±SD No.(%)** | |  | **n** | **Mean±SD No.(%)** | |  | **n** | **Mean±SD No.(%)** | |
| ***Maternal charasteristics*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Age at delivery (years) | 497 |  | 30.7 | ±4.9 |  | 333 | 31.3 | ±4.7 |  | 164 | 29.6 | ±5.1 | **<0.01** |  | 217 | 30.9 | ±4.6 |  | 116 | 32.1 | ±4.8 | **0.03** |
| BMI before pregnancy |  |  | 21.2 | ±3.2 |  |  | 21.1 | ±3.1 |  |  | 21.3 | ±3.4 | 0.54 |  |  | 21.4 | ±3.4 |  |  | 20.7 | ±2.6 | 0.06 |
| Parity |  | 1 | 238 | (46.3) |  |  | 156 | (46.8) |  |  | 82 | (45.3) | 1.00 |  |  | 111 | (51.2) |  |  | 45 | (38.8) | **0.04** |
|  |  | >1 | 269 | (52.3) |  |  | 177 | (53.2) |  |  | 92 | (50.8) |  |  |  | 106 | (48.8) |  |  | 71 | (61.2) |  |
| Educational attainment (years) |  | <13 | 225 | (43.8) |  |  | 139 | (41.7) |  |  | 86 | (47.5) | 0.13 |  |  | 93 | (42.9) |  |  | 46 | (39.7) | 0.64 |
|  |  | ≥13 | 283 | (55.1) |  |  | 194 | (58.3) |  |  | 89 | (49.2) |  |  |  | 124 | (57.1) |  |  | 70 | (60.3) |  |
| Annual household income (yen) |  | <300 | 95 | (18.5) |  |  | 56 | (16.8) |  |  | 39 | (21.5) | 0.15 |  |  | 40 | (18.4) |  |  | 16 | (13.8) | 0.36 |
|  |  | ≥300 | 410 | (79.8) |  |  | 276 | (82.9) |  |  | 134 | (74.0) |  |  |  | 177 | (81.6) |  |  | 99 | (85.3) |  |
| Smoking during pregnancy |  | No | 421 | (81.9) |  |  | 286 | (85.9) |  |  | 135 | (74.6) | **0.02** |  |  | 181 | (83.4) |  |  | 105 | (90.5) | 0.10 |
|  |  | Yes | 87 | (16.9) |  |  | 47 | (14.1) |  |  | 40 | (22.1) |  |  |  | 36 | (16.6) |  |  | 11 | (9.5) |  |
| Alcohol intake during pregnancy |  | No | 357 | (69.5) |  |  | 231 | (69.4) |  |  | 126 | (69.6) | 1.00 |  |  | 145 | (66.8) |  |  | 86 | (74.1) | 0.17 |
|  |  | Yes | 157 | (30.5) |  |  | 102 | (30.6) |  |  | 55 | (30.4) |  |  |  | 72 | (33.2) |  |  | 30 | (25.9) |  |
| Povidone iodine gargling(week) |  | No | 471 | (91.6) |  |  | 309 | (92.8) |  |  | 162 | (89.5) | 1.00 |  |  | 198 | (91.2) |  |  | 111 | (95.7) | 0.47 |
|  |  | Yes | 28 | (5.4) |  |  | 19 | (5.7) |  |  | 9 | (5.0) |  |  |  | 14 | (6.5) |  |  | 5 | (4.3) |  |
| Seaweed (week) |  | No | 138 | (26.8) |  |  | 96 | (28.8) |  |  | 42 | (23.2) | 1.00 |  |  | 67 | (30.9) |  |  | 29 | (25.0) | 0.09 |
|  |  | Yes | 255 | (49.6) |  |  | 178 | (53.5) |  |  | 77 | (42.5) |  |  |  | 105 | (48.4) |  |  | 73 | (62.9) |  |
| Iodine intake per month |  | No | 324 | (63.0) |  |  | 230 | (69.1) |  |  | 94 | (51.9) | 0.25 |  |  | 140 | (64.5) |  |  | 90 | (77.6) | 0.17 |
|  |  | Yes | 69 | (13.4) |  |  | 44 | (13.2) |  |  | 25 | (13.8) |  |  |  | 32 | (14.7) |  |  | 12 | (10.3) |  |
| AMC and/or ATG positive |  | No | 421 | (81.9) |  |  | 301 | (90.4) |  |  | 120 | (66.3) | 0.50 |  |  | 198 | (91.2) |  |  | 103 | (88.8) | 0.56 |
|  |  | Yes | 48 | (9.3) |  |  | 32 | (9.6) |  |  | 16 | (8.8) |  |  |  | 19 | (8.8) |  |  | 13 | (11.2) |  |
| Toxemia of pregnancy |  | No | 442 | (90.9) |  |  | 299 | (91.4) |  |  | 143 | (89.9) | 0.62 |  |  | 192 | (91.0) |  |  | 107 | (92.2) | 0.84 |
|  |  | Yes | 44 | (9.1) |  |  | 28 | (8.6) |  |  | 16 | (10.1) |  |  |  | 19 | (9.0) |  |  | 9 | (7.8) |  |
| Gestationall deabetes |  | No | 489 | (99.8) |  |  | 328 | (99.7) |  |  | 161 | (100.0) | 1.00 |  |  | 212 | (99.5) |  |  | 116 | (100.0) | 1.00 |
|  |  | Yes | 1 | (0.2) |  |  | 1 | (0.3) |  |  | 0 | (0.0) |  |  |  | 1 | (0.5) |  |  | 0 | (0.0) |  |
| Blood sampling period for POPs |  | During pregnancy | 246 | (47.9) |  |  | 217 | (65.2) |  |  | 29 | (16.0) | 0.87 |  |  |  |  |  |  |  |  |  |
|  |  | After birth | 133 | (25.9) |  |  | 116 | (34.8) |  |  | 17 | (9.4) |  |  |  |  |  |  |  |  |  |  |
| Blood sampling period for TH | 470 |  | 80.7 | ±17.4 |  | 333 | 80.0 | ±15.3 |  | 137 | 82.5 | ±21.5 | 0.22 |  | 217 | 79.3 | ±13.6 |  | 116 | 81.2 | ±18.2 | 0.33 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ***Infant characteristics*** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Gender |  | Male | 234 | (45.5) |  |  | 153 | (45.9) |  |  | 81 | (44.8) | 0.39 |  |  | 104 | (47.9) |  |  | 49 | (42.2) | 0.42 |
|  |  | Female | 253 | (49.2) |  |  | 175 | (52.6) |  |  | 78 | (43.1) |  |  |  | 111 | (51.2) |  |  | 64 | (55.2) |  |
| Gestational days | 497 |  | 275.2 | ±10.0 |  | 333 | 275.5 | ±9.8 |  | 164 | 274.7 | ±10.4 | 0.40 |  | 217 | 277.2 | ±9.1 |  | 116 | 272.4 | ±10.4 | **0.00** |
| Birth weight (g) | 487 |  | 3049 | ±395 |  | 328 | 3073 | ±385 |  | 159 | 2999 | ±411 | 0.06 |  | 215 | 3084 | ±382 |  | 113 | 3051 | ±393 | 0.47 |
| Blood sampling (day after birth) of THs | 507 |  | 4.3 | ±1.2 |  | 333 | 4.4 | ±0.9 |  | 174 | 4.1 | ±1.6 | **0.03** |  | 217 | 4.4 | ±0.9 |  | 116 | 4.5 | ±0.9 | 0.34 |
| Total dioxin TEQ | 426 |  | 14.9 | ±6.6 |  | 333 | 14.5 | ±6.4 |  | 93 | 16.2 | ±7.2 | **0.02** |  | 217 | 14.6 | ±6.3 |  | 116 | 14.3 | ±6.5 | 0.57 |
| SD: standard deviation; CI: confidence interval; BMI: body mass index; AMC: antimicrosomal antibody; ATG: antithyroglobulin antibody; OCP: organochlorine pesticide; TH: thyroid hormone; TEQ: toxic equivalency; TSH: thyroid stimulating hormone, FT4: free thyroxine | | | | | | | | | | | | | | | | | | | | | | |

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| Supplemental Table 2. Differences in thyroid hormone concentrations among participants included in and excluded from the study, and between blood sampling groups. | | | | | | | | | | | | | | | |  |  |  |  |  |  |  |
|  | ALL | | |  | Analysis in this study | | | | | | | |  | Blood sampling period of OCPs | | | | | | | |  |
|  |  | Included | | |  | Exclude | | | p-value |  | Before | | |  | After | | | p-value |  |
|  | n | Median | Range |  | n | Median | Range |  | n | Median | Range |  | n | Median | Range |  | n | Median | Range |  |
| *Mother* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TSH | 468 | 1.00 | (0 7) |  | 333 | 1.00 | (0 7) |  | 135 | 0.90 | (0 5) | 0.56 |  | 217 | 1.00 | (0 7) |  | 116 | 1.00 | (0 5) | 0.54 |  |
| FT4 | 467 | 0.99 | (0.5 3.3) |  | 333 | 0.98 | (0.5 3.3) |  | 134 | 1.00 | (0.5 2.4) | 0.69 |  | 217 | 1.00 | (0.5 2.6) |  | 116 | 0.96 | (0.5 3.3) | 0.84 |  |
| TSH×FT4 | 467 | 0.92 | (0.2 6.1) |  | 333 | 0.93 | (0.2 6.1) |  | 134 | 0.86 | (0.2 4.6) | 0.56 |  | 217 | 0.97 | (0.2 6.1) |  | 116 | 0.88 | (0.2 4.4) | 0.45 |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *Children* |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TSH | 507 | 2.10 | (0 25) |  | 333 | 2.20 | (0 25) |  | 174 | 2.10 | (0 10) | 0.86 |  | 217 | 2.20 | (0 25) |  | 116 | 1.90 | (0 10) | 0.06 |  |
| FT4 | 507 | 2.02 | (0 3.3) |  | 333 | 2.01 | (0.9 3.3) |  | 174 | 2.04 | (0 3.1) | 0.44 |  | 217 | 2.02 | (1.1 3.3) |  | 116 | 1.97 | (0.9 3.1) | 0.46 |  |
| TSH×FT4 | 507 | 4.24 | (0 58.0) |  | 333 | 4.20 | (0.21 58.0) |  | 174 | 4.42 | (0 24.1) | 0.73 |  | 217 | 4.37 | (0.3 58.0) |  | 116 | 3.78 | (0.2 20.9) | 0.05 |  |
| TH: thyroid hormone; TSH: thyroid stimulating hormone, FT4: free thyroxine | | | | | | | | | | | | | | | | | | | | | | |

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| Supplemental Table3. Correlation between OCPs, Total dioxin TEQ (n=333) | | | | |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Loxychlordane | Lcis-Nonachlor | Ltrans-Nonachlor | Lp,p'-DDD | Lo,p'-DDE | Lp,p'-DDE | Lo,p'-DDT | Lp,p'-DDT | LDieldrin | Lcis-Heptachlorepoxide | LHCB | Lβ-HCH | LMirex | LParlar-26 | LParlar-50 | Total Dioxin-TEQ |
| oxychlordane | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| cis-Nonachlor | .857\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| trans-Nonachlor | .933\*\* | .914\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| p,p'-DDD | .292\*\* | .334\*\* | .335\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| o,p'-DDE | .390\*\* | .528\*\* | .432\*\* | .337\*\* | 1 |  |  |  |  |  |  |  |  |  |  |  |
| p,p'-DDE | .589\*\* | .581\*\* | .587\*\* | .449\*\* | .586\*\* | 1 |  |  |  |  |  |  |  |  |  |  |
| o,p'-DDT | .322\*\* | .468\*\* | .368\*\* | .409\*\* | .713\*\* | .693\*\* | 1 |  |  |  |  |  |  |  |  |  |
| p,p'-DDT | .541\*\* | .677\*\* | .569\*\* | .528\*\* | .690\*\* | .709\*\* | .724\*\* | 1 |  |  |  |  |  |  |  |  |
| Dieldrin | .448\*\* | .635\*\* | .498\*\* | .233\*\* | .451\*\* | .430\*\* | .456\*\* | .596\*\* | 1 |  |  |  |  |  |  |  |
| cis-HCE | .565\*\* | .619\*\* | .547\*\* | .239\*\* | .358\*\* | .464\*\* | .389\*\* | .550\*\* | .756\*\* | 1 |  |  |  |  |  |  |
| HCB | .804\*\* | .816\*\* | .752\*\* | .315\*\* | .494\*\* | .640\*\* | .442\*\* | .677\*\* | .595\*\* | .640\*\* | 1 |  |  |  |  |  |
| β-HCH | .727\*\* | .652\*\* | .664\*\* | .288\*\* | .381\*\* | .720\*\* | .367\*\* | .569\*\* | .477\*\* | .570\*\* | .791\*\* | 1 |  |  |  |  |
| Mirex | .702\*\* | .747\*\* | .696\*\* | .314\*\* | .415\*\* | .528\*\* | .357\*\* | .536\*\* | .360\*\* | .408\*\* | .626\*\* | .534\*\* | 1 |  |  |  |
| Parlar-26 | .562\*\* | .775\*\* | .600\*\* | .344\*\* | .561\*\* | .480\*\* | .539\*\* | .646\*\* | .653\*\* | .572\*\* | .682\*\* | .509\*\* | .556\*\* | 1 |  |  |
| Parlar-50 | .588\*\* | .812\*\* | .617\*\* | .289\*\* | .587\*\* | .496\*\* | .538\*\* | .678\*\* | .668\*\* | .587\*\* | .718\*\* | .512\*\* | .592\*\* | .932\*\* | 1 |  |
| Total dioxin | .643\*\* | .673\*\* | .625\*\* | .185\*\* | .423\*\* | .517\*\* | .367\*\* | .534\*\* | .399\*\* | .430\*\* | .688\*\* | .621\*\* | .547\*\* | .514\*\* | .547\*\* | 1 |
| The 15 compounds detected among > 80% of the participants as well as total dioxin were reported. | | | | | | | | | | | | | | | | |
|
| OCP: organochlorine pesticide; DDD: dichlorodiphenyldichloroethane; DDE: dichlorodiphenyldichloroethylene; DDT: dichlorodiphenyldichloroethylene; HCB: hexachlorobenzene; HCH: hexachlorocyclohexane | | | | | | | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental table 4. Difference of OCP concentlation included and excluded group in this study, and between blood sampling group. | | | | | | | | | | | | | | | |  |
|  | ALL (n=379) | |  | Analysis in this study | | | | |  | Blood sampling period of OCPs | | | | | |  |
|  |  | Included (n=333) | | Exclude (n=46) | | p-value |  | During pregnancy (n=217) | |  | After delivery (n=116) | | p-value |  |
|  | Median | (Range) |  | Median | (Range) | Median | (Range) |  | Median | (Range) |  | Median | (Range) |  |
| oxychlordane | 39.67 | (7.9 250.9) |  | 39.17 | (7.9 250.9) | 45.17 | (18 107.8) | 0.12 |  | 38.16 | (7.9 199.7) |  | 40.21 | (9.2 250.9) | 0.63 |  |
| cisNonachlor | 9.97 | (1.6 38.1) |  | 9.70 | (1.6 38.1) | 12.51 | (3.5 27.5) | **0.01** |  | 9.46 | (1.6 37.6) |  | 10.07 | (1.7 38.1) | 0.59 |  |
| transNonachlor | 71.52 | (13.1 513.5) |  | 69.73 | (13.1 513.5) | 95.35 | (32.1 286.8) | **0.03** |  | 68.26 | (13.4 513.5) |  | 79.22 | (13.1 487.9) | 0.24 |  |
| p,p'-DDD | 1.48 | (0.2 9) |  | 1.48 | (0.2 9) | 1.55 | (0.2 7.2) | 0.81 |  | 1.32 | (0.2 6.3) |  | 1.75 | (0.2 9) | 0.14 |  |
| o,p'-DDE | 1.27 | (0.2 6.2) |  | 1.28 | (0.2 6.2) | 1.12 | (0.2 3.4) | 0.69 |  | 1.31 | (0.2 5.7) |  | 1.27 | (0.2 6.2) | 0.43 |  |
| p,p'-DDE | 650.99 | (99.5 4575.7) |  | 634.02 | (99.5 4575.7) | 724.64 | (217.9 3345.9) | 0.33 |  | 637.22 | (103.3 4575.7) |  | 624.27 | (99.5 3682.2) | 0.64 |  |
| o,p'-DDT | 3.48 | (0.3 17.1) |  | 3.54 | (0.3 17.1) | 3.19 | (0.3 11) | 0.81 |  | 3.66 | (0.3 17.1) |  | 3.28 | (0.3 13.2) | 0.10 |  |
| p,p'-DDT | 23.16 | (2.4 121.5) |  | 22.49 | (2.4 121.5) | 26.59 | (9.2 107.4) | 0.06 |  | 22.05 | (5.6 121.5) |  | 23.90 | (2.4 76.4) | 0.80 |  |
| Dieldrin | 16.42 | (4.1 71.5) |  | 16.28 | (4.1 71.5) | 18.95 | (7.2 63.6) | **0.04** |  | 16.54 | (5.8 53.5) |  | 15.66 | (4.1 71.5) | 0.97 |  |
| cisHeptachlorepoxide | 26.44 | (6.2 200.5) |  | 25.81 | (6.2 200.5) | 30.19 | (12.6 91) | 0.05 |  | 25.57 | (6.5 200.5) |  | 26.07 | (6.2 149.1) | 0.80 |  |
| HCB | 101.65 | (34.9 245.5) |  | 101.06 | (34.9 239.8) | 110.02 | (65.6 245.5) | **0.02** |  | 101.64 | (34.9 238.2) |  | 99.71 | (39.4 239.8) | 0.64 |  |
| βHCH | 154.45 | (19.9 1667.1) |  | 153.35 | (19.9 1667.1) | 185.45 | (37 719.7) | 0.11 |  | 151.91 | (19.9 772.6) |  | 156.39 | (23.7 1667.1) | 0.70 |  |
| Mirex | 5.95 | (0.9 35) |  | 5.87 | (0.9 35) | 6.09 | (2.2 18.4) | 0.75 |  | 5.82 | (1.1 31.2) |  | 6.02 | (0.9 35) | 0.10 |  |
| Parlar26 | 4.39 | (0.5 20.8) |  | 4.30 | (0.5 20.8) | 5.51 | (1.4 17.6) | **0.02** |  | 4.30 | (0.5 20.8) |  | 4.30 | (0.5 16.9) | 0.63 |  |
| Parlar50 | 6.52 | (1 29.3) |  | 6.40 | (1 29.3) | 7.24 | (1 23.8) | 0.07 |  | 6.56 | (1 29.3) |  | 6.15 | (1 23.3) | 0.63 |  |
| The 15 compounds detected among > 80% of the participants as well as total dioxin were reported. | | | | | | | | | | | | | | | | |
| OCP: organochlorine pesticide; DDD: dichlorodiphenyldichloroethane; DDE: dichlorodiphenyldichloroethylene; DDT: dichlorodiphenyldichloroethylene; HCB: hexachlorobenzene; HCH: hexachlorocyclohexane | | | | | | | | | | | | | | | | |

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| Supplemental table 5. Associations between prenatal exposure to OCPs and maternal TH (n = 188) | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **TSH** | | | | | | | | |  | **FT4** | | | | | | | | |  | **TSH×FT4** | | | | | | | | |
| **Crude** | | | |  | **Model** | | | |  | **Crude** | | | |  | **Model** | | | |  | **Crude** | | | |  | **Model** | | | |
| β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |
| oxychlordane | 0.07 | -0.14 | 0.28 | 0.53 |  | 0.07 | -0.23 | 0.36 | 0.64 |  | -0.01 | -0.08 | 0.06 | 0.82 |  | 0.01 | -0.09 | 0.10 | 0.90 | # | 0.06 | -0.13 | 0.25 | 0.54 |  | 0.08 | -0.19 | 0.34 | 0.57 |
| cis-Nonachlor | 0.07 | -0.13 | 0.27 | 0.49 |  | 0.01 | -0.27 | 0.30 | 0.93 |  | -0.05 | -0.12 | 0.02 | 0.14 |  | -0.06 | -0.15 | 0.03 | 0.22 | **#** | 0.02 | -0.16 | 0.20 | 0.83 |  | -0.04 | -0.30 | 0.21 | 0.74 |
| trans-Nonachlor | 0.11 | -0.09 | 0.30 | 0.28 |  | 0.11 | -0.15 | 0.37 | 0.41 |  | -0.03 | -0.10 | 0.04 | 0.37 |  | -0.02 | -0.10 | 0.06 | 0.66 | # | 0.08 | -0.09 | 0.25 | 0.37 |  | 0.09 | -0.14 | 0.32 | 0.45 |
| p,p'-DDD | 0.04 | -0.09 | 0.17 | 0.56 |  | 0.01 | -0.12 | 0.14 | 0.87 |  | -0.01 | -0.05 | 0.04 | 0.81 |  | 0.01 | -0.04 | 0.05 | 0.77 | # | 0.03 | -0.08 | 0.15 | 0.57 |  | 0.02 | -0.10 | 0.13 | 0.78 |
| o,p'-DDE | 0.12 | -0.01 | 0.25 | 0.07 |  | 0.12 | -0.03 | 0.26 | 0.11 |  | **-0.05** | **-0.09** | **-0.01** | **0.02** |  | **-0.05** | **-0.10** | **-0.01** | **0.02** | # | 0.07 | -0.05 | 0.18 | 0.24 |  | 0.06 | -0.07 | 0.20 | 0.34 |
| p,p'-DDE | 0.11 | -0.07 | 0.28 | 0.24 |  | 0.07 | -0.15 | 0.28 | 0.55 |  | **-0.07** | **-0.13** | **-0.01** | **0.03** |  | -0.06 | -0.13 | 0.00 | 0.07 | **#** | 0.04 | -0.12 | 0.20 | 0.62 |  | 0.001 | -0.19 | 0.20 | 0.99 |
| o,p'-DDT | 0.14 | -0.02 | 0.31 | 0.08 |  | 0.16 | -0.03 | 0.34 | 0.10 |  | **-0.09** | **-0.14** | **-0.04** | **0.001** |  | **-0.10** | **-0.16** | **-0.04** | **0.001** | # | 0.05 | -0.09 | 0.20 | 0.47 |  | 0.05 | -0.12 | 0.22 | 0.53 |
| p,p'-DDT | 0.10 | -0.10 | 0.30 | 0.33 |  | 0.10 | -0.16 | 0.36 | 0.45 |  | -0.07 | -0.13 | 0.003 | 0.06 |  | **-0.09** | **-0.17** | **-0.01** | **0.03** | **#** | 0.04 | -0.15 | 0.22 | 0.70 |  | 0.01 | -0.22 | 0.24 | 0.93 |
| Dieldrin | 0.16 | -0.10 | 0.41 | 0.23 |  | 0.14 | -0.15 | 0.44 | 0.34 |  | **-0.13** | **-0.21** | **-0.04** | **0.003** |  | **-0.16** | **-0.25** | **-0.07** | **0.001** | # | 0.03 | -0.20 | 0.26 | 0.81 |  | -0.02 | -0.28 | 0.25 | 0.90 |
| cis-HCE | 0.01 | -0.20 | 0.23 | 0.91 |  | -0.09 | -0.34 | 0.16 | 0.48 |  | -0.07 | -0.14 | -0.001 | 0.05 |  | -0.05 | -0.13 | 0.03 | 0.19 | # | -0.06 | -0.25 | 0.13 | 0.54 |  | -0.14 | -0.37 | 0.08 | 0.21 |
| HCB | -0.04 | -0.35 | 0.27 | 0.79 |  | -0.26 | -0.72 | 0.21 | 0.28 |  | -0.04 | -0.14 | 0.07 | 0.47 |  | -0.05 | -0.20 | 0.10 | 0.55 | # | -0.08 | -0.36 | 0.19 | 0.56 |  | -0.30 | -0.72 | 0.12 | 0.16 |
| βHCH | 0.07 | -0.10 | 0.23 | 0.42 |  | -0.04 | -0.30 | 0.21 | 0.74 |  | -0.04 | -0.09 | 0.02 | 0.17 |  | -0.04 | -0.12 | 0.04 | 0.35 | **#** | 0.03 | -0.12 | 0.17 | 0.69 |  | -0.08 | -0.31 | 0.15 | 0.48 |
| Mirex | 0.07 | -0.13 | 0.27 | 0.49 |  | 0.02 | -0.27 | 0.31 | 0.87 |  | -0.03 | -0.10 | 0.03 | 0.34 |  | 0.00 | -0.10 | 0.09 | 0.92 | **#** | 0.04 | -0.14 | 0.21 | 0.68 |  | 0.02 | -0.24 | 0.28 | 0.88 |
| Parlar26 | 0.10 | -0.07 | 0.27 | 0.24 |  | 0.04 | -0.16 | 0.24 | 0.70 |  | -0.05 | -0.11 | 0.005 | 0.07 |  | -0.04 | -0.10 | 0.03 | 0.23 | # | 0.049 | -0.10 | 0.20 | 0.52 |  | 0.000 | -0.18 | 0.18 | 1.00 |
| Parlar50 | 0.03 | -0.14 | 0.20 | 0.70 |  | -0.06 | -0.28 | 0.15 | 0.56 |  | -0.06 | -0.12 | -0.004 | 0.04 |  | -0.05 | -0.12 | 0.01 | 0.11 | # | -0.03 | -0.18 | 0.12 | 0.72 |  | -0.12 | -0.31 | 0.07 | 0.23 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Models were adjusted for maternal age, maternal BMI, smoking during pregnancy, maternal education, blood sampling period of TH and OCP, Total dioxin, OH-PCB. The values of OCP, TH, Total dioxin, and OH-PCB were log10 transformed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OCPs: organochlorine pesticides; TH: thyroid hormone; CI: confidence interval; DDD: dichlorodiphenyldichloroethane; DDE: dichlorodiphenyldichloroethylene; DDT: dichlorodiphenyldichloroethylene; HCE: Heptachlorepoxide; HCB: hexachlorobenzene; HCH: hexachlorocyclohexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Supplemental table6 Association between prenatal exposure to OCPs and infant TH (n = 188) | | | | | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **TSH** | | | | | | | | |  | **FT4** | | | | | | | | |  | **TSH×FT4** | | | | | | | | |
| **Crude** | | | |  | **Model** | | | |  | **Crude** | | | |  | **Model** | | | |  | **Crude** | | | |  | **Model** | | | |
| β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |  | β | 95%CI | | *p* |
| oxychlordane | 0.01 | -0.21 | 0.22 | 0.96 |  | 0.07 | -0.23 | 0.37 | 0.63 |  | 0.05 | -0.01 | 0.10 | 0.08 |  | 0.06 | -0.01 | 0.14 | 0.10 | # | 0.05 | -0.17 | 0.28 | 0.65 |  | 0.14 | -0.19 | 0.46 | 0.41 |
| cis-Nonachlor | 0.06 | -0.14 | 0.27 | 0.53 |  | 0.07 | -0.21 | 0.36 | 0.61 |  | 0.05 | 0.0002 | 0.10 | 0.05 |  | **0.09** | **0.02** | **0.16** | **0.01** | # | 0.11 | -0.10 | 0.33 | 0.29 |  | 0.17 | -0.14 | 0.47 | 0.28 |
| trans-Nonachlor | 0.04 | -0.16 | 0.23 | 0.70 |  | 0.09 | -0.18 | 0.35 | 0.52 |  | **0.05** | **0.004** | **0.10** | **0.03** |  | **0.08** | **0.01** | **0.14** | **0.02** | # | 0.09 | -0.12 | 0.30 | 0.39 |  | 0.16 | -0.12 | 0.44 | 0.25 |
| p,p'-DDD | 0.02 | -0.11 | 0.15 | 0.80 |  | 0.02 | -0.12 | 0.15 | 0.82 |  | 0.02 | -0.01 | 0.05 | 0.27 |  | 0.02 | -0.01 | 0.06 | 0.18 | # | 0.03 | -0.10 | 0.17 | 0.62 |  | 0.04 | -0.10 | 0.18 | 0.60 |
| o,p'-DDE | 0.02 | -0.11 | 0.15 | 0.76 |  | 0.01 | -0.14 | 0.16 | 0.92 |  | **0.04** | **0.01** | **0.07** | **0.01** |  | **0.05** | **0.02** | **0.09** | **0.01** | # | 0.06 | -0.08 | 0.20 | 0.38 |  | 0.06 | -0.10 | 0.22 | 0.46 |
| p,p'-DDE | -0.05 | -0.23 | 0.13 | 0.57 |  | -0.08 | -0.30 | 0.14 | 0.46 |  | 0.01 | -0.04 | 0.05 | 0.72 |  | 0.001 | -0.05 | 0.06 | 0.96 | # | -0.04 | -0.24 | 0.15 | 0.65 |  | -0.08 | -0.31 | 0.15 | 0.50 |
| o,p'-DDT | 0.08 | -0.08 | 0.25 | 0.34 |  | 0.05 | -0.14 | 0.24 | 0.60 |  | 0.01 | -0.04 | 0.05 | 0.76 |  | 0.00 | -0.04 | 0.05 | 0.84 | # | 0.09 | -0.09 | 0.26 | 0.33 |  | 0.06 | -0.15 | 0.26 | 0.59 |
| p,p'-DDT | 0.02 | -0.19 | 0.22 | 0.86 |  | -0.02 | -0.28 | 0.24 | 0.88 |  | 0.04 | -0.01 | 0.09 | 0.09 |  | 0.07 | 0.0010 | 0.13 | 0.05 | # | 0.06 | -0.16 | 0.28 | 0.57 |  | 0.04 | -0.24 | 0.33 | 0.75 |
| Dieldrin | 0.07 | -0.19 | 0.33 | 0.58 |  | 0.06 | -0.25 | 0.36 | 0.72 |  | 0.03 | -0.03 | 0.10 | 0.35 |  | 0.05 | -0.03 | 0.12 | 0.21 | # | 0.10 | -0.17 | 0.38 | 0.46 |  | 0.10 | -0.22 | 0.43 | 0.53 |
| cis-HCE | -0.13 | -0.34 | 0.09 | 0.25 |  | -0.17 | -0.42 | 0.08 | 0.19 |  | -0.02 | -0.07 | 0.04 | 0.51 |  | -0.02 | -0.09 | 0.04 | 0.44 | # | -0.15 | -0.38 | 0.08 | 0.21 |  | -0.19 | -0.46 | 0.08 | 0.16 |
| HCB | -0.07 | -0.39 | 0.24 | 0.65 |  | -0.08 | -0.55 | 0.40 | 0.74 |  | 0.05 | -0.02 | 0.13 | 0.17 |  | 0.06 | -0.06 | 0.18 | 0.31 | # | -0.02 | -0.35 | 0.32 | 0.92 |  | -0.02 | -0.53 | 0.49 | 0.94 |
| βHCH | -0.06 | -0.22 | 0.11 | 0.51 |  | -0.04 | -0.31 | 0.23 | 0.76 |  | -0.002 | -0.04 | 0.04 | 0.93 |  | -0.02 | -0.08 | 0.05 | 0.62 | # | -0.06 | -0.23 | 0.12 | 0.52 |  | -0.06 | -0.35 | 0.23 | 0.68 |
| Mirex | 0.13 | -0.07 | 0.33 | 0.20 |  | 0.18 | -0.11 | 0.48 | 0.22 |  | 0.04 | -0.01 | 0.09 | 0.15 |  | **0.09** | **0.02** | **0.16** | **0.02** | # | 0.17 | -0.04 | 0.38 | 0.12 |  | 0.27 | -0.04 | 0.58 | 0.09 |
| Parlar26 | 0.06 | -0.11 | 0.22 | 0.52 |  | 0.02 | -0.18 | 0.23 | 0.82 |  | 0.02 | -0.02 | 0.06 | 0.39 |  | 0.04 | -0.01 | 0.09 | 0.11 | # | 0.07 | -0.10 | 0.25 | 0.41 |  | 0.06 | -0.15 | 0.28 | 0.56 |
| Parlar50 | 0.03 | -0.14 | 0.21 | 0.69 |  | -0.01 | -0.22 | 0.21 | 0.93 |  | 0.03 | -0.02 | 0.07 | 0.23 |  | 0.04 | -0.01 | 0.10 | 0.12 | # | 0.06 | -0.12 | 0.24 | 0.51 |  | 0.03 | -0.20 | 0.26 | 0.78 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Models were adjusted for maternal age, maternal BMI, smoking during pregnancy, maternal education, blood sampling period of TH and OCP, Total dioxin, OH-PCB. The values of OCP, TH, Total dioxin, and OH-PCB were log10 transformed. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| OCPs: organochlorine pesticides; TH: thyroid hormone; CI: confidence interval; DDD: dichlorodiphenyldichloroethane; DDE: dichlorodiphenyldichloroethylene; DDT: dichlorodiphenyldichloroethylene; HCE: Heptachlorepoxide; HCB: hexachlorobenzene; HCH: hexachlorocyclohexane | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



