Supplemental Table 1. Median levels of *p,p'*-DDT and *p,p'*-DDE according to maternal characteristics, Tapachula, Mexico 2002-2005.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  |  | *p,p'*-DDT (µg/g lipids) | |  | *p,p'*-DDE (µg/g lipids) | |
| Maternal characteristics | n | Median (IQR) | *p-value\** |  | Median (IQR) | *p-value\** |
| Age (years) |  |  | 0.38 |  |  | <0.01 |
| <20.0 | 168 | 0.33 (0.96) |  |  | 2.77 (5.19) |  |
| 20.0 - 24.9 | 271 | 0.24 (0.56) |  |  | 2.38 (3.08) |  |
| 25.0 - 29.9 | 207 | 0.28 (0.63) |  |  | 2.97 (5.32) |  |
| 30 + | 101 | 0.30 (0.53) |  |  | 4.08 (5.70) |  |
| Education (years) |  |  | <0.01 |  |  | 0.88 |
| 0 - 6 | 262 | 0.36 (1.08) |  |  | 2.75 (5.85) |  |
| 7 - 9 | 236 | 0.28 (0.55) |  |  | 2.80 (3.99) |  |
| 10 - 12 | 173 | 0.24 (0.47) |  |  | 2.71 (4.21) |  |
| > 12 | 76 | 0.20 (0.22) |  |  | 2.57 (2.69) |  |
| Parity |  |  | 0.47 |  |  | 0.01 |
| 1 | 307 | 0.29 (0.72) |  |  | 3.24 (5.15) |  |
| 2 | 261 | 0.25 (0.57) |  |  | 2.57 (3.71) |  |
| 3+ | 179 | 0.25 (0.57) |  |  | 2.26 (3.86) |  |
| Trimester of first prenatal visit |  |  | 0.15 |  |  | 0.42 |
| Never | 250 | 0.30 (0.71) |  |  | 3.00 (5.53) |  |
| 1st | 330 | 0.25 (0.68) |  |  | 2.66 (3.63) |  |
| After first | 167 | 0.27 (0.60) |  |  | 2.52 (4.62) |  |
| Type of delivery |  |  | 0.50 |  |  | 0.20 |
| Caesarean | 277 | 0.28 (0.60) |  |  | 2.97 (4.42) |  |
| Vaginal | 470 | 0.26 (0.69) |  |  | 2.61 (4.34) |  |
| Marital Status |  |  | 0.49 |  |  | 0.21 |
| Married | 357 | 0.26 (0.67) |  |  | 2.79 (4.21) |  |
| Not married with partner | 320 | 0.27 (0.57) |  |  | 2.59 (3.68) |  |
| Single | 70 | 0.39 (1.07) |  |  | 3.66 (7.33) |  |
|  |  |  |  |  |  |  |
| Hospital of recruitment |  |  | 0.03 |  |  | 0.97 |
| Social Security | 368 | 0.25 (0.50) |  |  | 2.72 (3.71) |  |
| Ministry of Health | 379 | 0.30 (0.94) |  |  | 2.73 (5.39) |  |
| Mom smoked ever |  |  | <0.01 |  |  | <0.01 |
| Yes | 146 | 0.18 (0.33) |  |  | 2.22 (2.72) |  |
| No | 601 | 0.30 (0.72) |  |  | 2.98 (5.10) |  |
| Poverty index |  |  | 0.46 |  |  | 0.19 |
| Poorest | 531 | 0.28 (0.81) |  |  | 2.70 (4.86) |  |
| Less poor | 139 | 0.27 (0.54) |  |  | 3.27 (4.19) |  |
| Not poor | 77 | 0.25 (0.28) |  |  | 2.54 (2.75) |  |
| Residence area |  |  | <0.01 |  |  | <0.01 |
| Urban | 448 | 0.19 (0.29) |  |  | 2.21 (2.90) |  |
| Rural | 299 | 0.66 (1.48) |  |  | 4.27 (6.95) |  |
| Type of sanitation system |  |  | <0.01 |  |  | <0.01 |
| Sewer system | 555 | 0.24 (0.47) |  |  | 2.52 (3.57) |  |
| Septic tank | 126 | 0.41 (1.04) |  |  | 3.66 (6.35) |  |
| Latrine | 44 | 0.92 (2.22) |  |  | 4.48 (8.13) |  |
| Other | 22 | 0.50 (1.46) |  |  | 3.53 (6.75) |  |
| House's type of floor |  |  | <0.01 |  |  | <0.01 |
| Dirt/Soil | 202 | 0.50 (1.35) |  |  | 3.63 (6.97) |  |
| Concrete | 487 | 0.25 (0.51) |  |  | 2.55 (3.62) |  |
| Mosaic/other | 58 | 0.19 (0.21) |  |  | 2.19 (3.18) |  |

IQR, interquartile range

\**P-value*s from Pearson's Chi2 test for the equality of medians across categories of each variable

Supplemental Table 2. Crude incidence rate (IR) of diarrhea according to prenatal exposure to *p,p'*-DDE and *p,p'*-DDT among boys from Tapachula, Chiapas, Mexico 2002-2005.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | Overall | | | |  | Urban residence | | | |  | Rural residence | | | |
| Organochlorine (µg/g lipids) | n | Diarrhea episodes | Person-time (year) | IR per child-year |  | n | Diarrhea episodes | Person-time (year) | IR per child-year |  | n | Diarrhea episodes | Person-time (year) | IR per child-year |
| *Overall* | 747 | 2354 | 1387 | 1.70 |  | 448 | 1333 | 824 | 1.62 |  | 299 | 1021 | 563 | 1.81\* |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *p,p'-*DDE |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ≤ 3.00 | 400 | 1188 | 732 | 1.62 |  | 291 | 817 | 530 | 1.54 |  | 109 | 371 | 201 | 1.84 |
| 3.01 - 6.00 | 166 | 536 | 309 | 1.74 |  | 90 | 268 | 167 | 1.60 |  | 76 | 268 | 141 | 1.90 |
| 6.01 - 9.00 | 68 | 220 | 129 | 1.71 |  | 29 | 100 | 54 | 1.85 |  | 39 | 120 | 75 | 1.60 |
| > 9.00 | 113 | 410 | 218 | 1.88\* |  | 38 | 148 | 72 | 2.04\* |  | 75 | 262 | 145 | 1.80 |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| *p,p'*-DDT |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ≤ 0.25 | 362 | 1122 | 664 | 1.69 |  | 278 | 821 | 508 | 1.62 |  | 84 | 301 | 156 | 1.94 |
| 0.26 - 0.75 | 196 | 627 | 366 | 1.71 |  | 120 | 350 | 227 | 1.54 |  | 76 | 277 | 139 | 1.99 |
| 0.76 - 1.99 | 104 | 306 | 193 | 1.58 |  | 28 | 75 | 49 | 1.54 |  | 76 | 231 | 145 | 1.60\*\* |
| ≥ 2.00 | 85 | 299 | 164 | 1.83 |  | 22 | 87 | 40 | 2.17\* |  | 63 | 212 | 124 | 1.72 |

\**p*≤0.01 for incidence rate difference: overall rural vs. urban; DDE (µg/g) >9.00 vs. ≤3.00, overall and urban; DDT (µg/g) ≥2.00 vs. ≤0.25, urban

\*\**p*=0.03 for incidence rate difference: DDT (µg/g) 0.76 - 1.99 vs. ≤0.25, rural