Supplemental Table 4: Adjusted odds ratios (aORs) and 95% confidence intervals (CI) for cleft lip and/or cleft palate

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| --- | --- | --- | --- |
| **DBP Metrics (μg/L)** | **Cases (n)a**  | **aOR (95% CI)**  | **aOR (95% CI) without DBP adjustmentf** |
| **THM4b** |
| 0.00-20.27 | 58 | Ref | Ref |
| >20.27–37.69 | 48 | 0.82 (0.41, 1.64) | 0.95 (0.48, 1.86) |
| >37.69–49.90 | 63 | 1.18 (0.58, 2.40) | 1.49 (0.76, 2.92) |
| >49.90–63.86 | 50 | 0.92 (0.44, 1.93) | 1.22 (0.61, 2.44) |
| >63.86-118.35 | 58 | 1.02 (0.46, 2.25) | 1.47 (0.72, 3.00) |
| **THMBrc** |
| 0.00-5.16 | 109 | Ref | Ref |
| >5.16-8.11 | 70 | 0.64 (0.42, 0.96) | 0.62 (0.41, 0.93) |
| >8.11-35.68 | 98 | 0.88 (0.60, 1.29) | 0.87 (0.59, 1.28) |
| **Chloroformb** |
| 0.00-10.88 | 58 | Ref | Ref |
| >10.88–29.91 | 49 | 0.78 (0.40, 1.54) | 0.92 (0.48, 1.79) |
| >29.91–41.89 | 66 | 1.06 (0.51, 2.20) | 1.46 (0.74, 2.86) |
| >41.89–54.53 | 51 | 0.79 (0.37, 1.72) | 1.16 (0.57, 2.34) |
| >54.53-99.49 | 53 | 0.80 (0.36, 1.79) | 1.22 (0.59, 2.52) |
| **Bromodichloromethane (BDCM)c** |
| 0.00-4.84 | 108 | Ref | Ref |
| >4.84–7.06 | 73 | 0.65 (0.43, 0.98) | 0.64 (0.43, 0.97) |
| >7.06-34.90 | 96 | 0.85 (0.59, 1.22) | 0.88 (0.61, 1.27) |
| **Dibromochloromethane (DBCM)c** |
| 0.00 | 104 | Ref | Ref |
| >0.00-14.24 | 173 | 0.87 (0.58, 1.31) | 0.79 (0.53, 1.17) |
| **Bromoformc** |
| 0.00 | 243 | Ref | Ref |
| >0.00-5.91 | 34 | 0.99 (0.63, 1.58) | 0.81 (0.53, 1.25) |
| **HAA5d** |
| 0.00 – 7.38 | 57 | Ref | Ref |
| >7.38–19.62 | 46 | 0.94 (0.47, 1.91) | 0.97 (0.49, 1.92) |
| >19.62–26.34 | 59 | 1.42 (0.67, 3.04) | 1.50 (0.74, 3.01) |
| >26.34–34.20 | 53 | 1.28 (0.56, 2.92) | 1.37 (0.66, 2.84) |
| >34.20-94.62 | 63 | 1.58 (0.70, 3.58) | 1.70 (0.83, 3.45) |
| **Trichloroacetic acid (TCAA)d** |
| 0.00-4.85 | 64 | Ref | Ref |
| >4.85–11.27 | 75 | 1.51 (0.84, 2.70) | 1.56 (0.90, 2.70) |
| >11.27–16.42 | 57 | 1.22 (0.62, 2.41) | 1.29 (0.71, 2.35) |
| >16.42-67.69 | 80 | 1.87 (0.94, 3.75) | 2.00 (1.12, 3.59) |
| **Dichloroacetic acid (DCAA)d** |
| 0.00-4.99 | 69 | Ref | Ref |
| >4.99–10.72 | 59 | 1.04 (0.60, 1.80) | 1.08 (0.64, 1.84) |
| >10.72–14.01 | 78 | 1.54 (0.84, 2.80) | 1.64 (0.94, 2.85) |
| >14.01-38.89 | 70 | 1.33 (0.70, 2.54) | 1.45 (0.82, 2.56) |
| **Monochloroacetic acid (MCAA)d** |
| 0.00 | 131 | Ref | Ref |
| >0.00-35.89 | 145 | 1.05 (0.78, 1.42) | 1.09 (0.82, 1.47) |
| **Dibromoacetic acid (DBAA)d** |
| 0.00 | 220 | Ref | Ref |
| >0.00-14.72 | 56 | 0.83 (0.59, 1.17) | 0.80 (0.57, 1.11) |
| **DBP9e** |
| 0.00-30.66 | 58 | Ref | NA |
| >30.66–59.96 | 53 | 1.04 (0.54, 2.02) | NA |
| >59.96–78.69 | 53 | 1.19 (0.60, 2.37) | NA |
| >78.69–96.32 | 58 | 1.38 (0.69, 2.77) | NA |
| >96.32-166.20 | 55 | 1.31 (0.64, 2.67) | NA |

aThe numbers represent the TOF case distribution across exposure groups prior to modeling and stratification.

bCL/CP & THM4/chloroform: Models adjusted for water source and treatment type, zip code income, maternal race, maternal education, number of prenatal care visits, HAA5

cCL/CP & THMBr/BDCM/DBCM/bromoform: Models adjusted for water source and treatment type, zip code income, number of prenatal care visits, HAA5

dCL/CP & HAA5/TCAA/DCAA/MCAA/DBAA: Models adjusted for water source and treatment type, zip code income, maternal race, THM4

eCL/CP & DBP9: Models adjusted for water source and treatment type, zip code income, maternal race, number of prenatal care visits

fModels in this column are identical to models immediately to the left except for the exclusion of THM4 or HAA5.