Analyses by Wennborg et al. (2000) of Developmental Toxicity of Chloroform in Occupational Exposures

Association of chloroform exposure before conception and spontaneous abortion:

- Original analysis reported by Wennborg et al., 2000

OR = 2.3 (95% CI, 0.9 – 5.9)

- Revised analysis excluding previous spontaneous abortions

OR = 2.1 (95% CI, 1.1 – 4.0)

Analyses by Infante-Rivard (2004). Adjusted ORs (95% CIs) for exposure to THMs (chloroform and total THMs) in drinking water measured as average level at the tap, according to newborn and maternal polymorphisms in the CYP2E1 and MTHFR genes.

Gene	OR (95% CI) Using a 90th percentile cutoff		OR (95% CI) Using a 75th percentile cutoff	
	Chloroform	Total THMs	Chloroform	Total THMs
Newborns *CYP2E1*5* (G1259C)				
Wild type	0.99 (0.57-1.74)	0.82 (0.47-1.45)	0.92 (0.67-1.28)	0.74 (0.68-1.31)
1 or 2 variant alleles	5.62 (0.82-38.39)	13.20 (1.19-146.72)*	1.86 (0.63-5.08)	1.32 (0.68-5.98)
Mothers *CYP2E1*5* (G1259C)				
Wild type	0.88 (0.50-1.54)	0.83 (0.48-1.44)	0.94 (0.68-1.38)	0.92 (0.66-1.28)
1 or 2 variant alleles	4.40 (0.73-26.42)	6.54 (0.59-71.45)	1.38 (0.54-3.52)	1.38 (0.54-3.53)

* Chi-square (1degree of freedom) for effect modification = 4.87; p = 0.027.

Lim et al. (2004). The Effects of In Utero and Lactational Exposure to Chloroform on Postnatal Growth and Glucose Tolerance in Male Wistar Rats.

Effect of *In Utero* + Lactational Exposure to Chloroform on Postnatal Weight and Weight Gain*

Treatment	PND 21 (weaning)	26 wk of age	Weight gain (weaning – 26 week)
Control	57.7 ± 0.74^{a}	647.2 ± 11.22^{c}	589.4 ± 11.54^{e}
75 μg/L chloroform (*in utero* only)	49.6 ± 2.64^{b}	630.3 ± 19.07^{c}	580.7 ± 18.32^{e}
75 μg/L chloroform (*in utero* + lactation)	54.3 ± 1.52^{ab}	554.4 ± 3.68^{d}	500.1 ± 14.07^{f}

* Weights (g) are presented as mean ± SEM (n = 12 per group). Values with different superscripts are significantly different ($p < 0.05$) after analysis by one-way analysis of variance followed by pairwise comparisons (Bonferronis's *t*-test) where significance was indicated.