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Supplemental Material

Exposure to Drinking Water Chlorination by-Products and Fetal Growth and Prematurity: A Nationwide Register-Based Prospective Study

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Supplementary Table S1 Associations between average trihalomethane (TTHM) exposure (2nd trimester) for full-term small for gestational age expressed as odds ratios (OR) and 95% confidence interval (CI).

Treatment		Total births	No chlorine OR	<5 µg TTHM/l OR (95% CI)	5-15 µg TTHM/l OR (95% CI)	>15 µg TTHM/l OR (95% CI)	p-trend
All chlorination treatments*	Cases (n)	522,116	1,100	4,756	2,841	1,593	
	Non-cases (n)		61,404	244,941	129,255	76,226	
	Crude		1.00 (ref)	1.08 (1.01-1.16)	1.23 (1.14-1.32)	1.17 (1.08-1.26)	<0.001
	Model 1		1.00 (ref)	1.01 (0.93-1.09)	1.17 (1.07-1.27)	1.10 (1.00-1.21)	<0.001
	Model 2		1.00 (ref)	0.95 (0.87-1.03)	1.09 (0.99-1.19)	1.02 (0.92-1.12)	0.2
Chloramine	Cases (n)	276,834	1,100	3,152	269	682	
	Non-cases (n)	276,834	61,404	166,831	14,268	34,128	
	Model 1		1.00 (ref)	1.02 (0.93-1.11)	0.99 (0.85-1.15)	1.02 (0.91-1.15)	0.8
	Model 2		1.00 (ref)	0.91 (0.83-1.00)	0.89 (0.75-1.04)	0.91 (0.81-1.03)	0.3
	Model 2			1.00 (ref)	0.96 (0.83-1.12)	0.99 (0.89-1.10)	0.9
Hypochlorite	Cases (n)	157,514	1,100	582	580	881	
	Non-cases (n)	157,514	61,404	25,702	26,678	40,587	
	Model 1		1.00 (ref)	1.14 (1.02-1.27)	1.16 (1.04-1.30)	1.16 (1.05-1.28)	0.005
	Model 2		1.00 (ref)	1.10 (0.97-1.24)	1.16 (1.03-1.30)	1.15 (1.03-1.28)	0.009
	Model 2			1.00 (ref)	1.11 (0.99-1.25)	1.09 (0.98-1.22)	0.8

* Chloramine, hypochlorite, chlorine gas, chlorine dioxide in single or combined treatment

Model 1: adjusted for maternal age, BMI, household income, attained education, smoking at week 30 and country of birth by inverse probability weighting^{3,3}

Model 2: model 1 additionally adjusted for previous miscarriages, parity, sick leave/early retirement, use of teratogenic drugs, diabetes, preeclampsia, hypertension, weight gain and year of birth.

p-trend: linear trends across categories were tested using the median TTHM concentration within categories as a continuous variable