

Supplemental Material
**Residential Proximity to Methyl Bromide Use and Birth Outcomes in
an Agricultural Population in California**

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Supplemental Material, Table S1. Characteristics [N (%)] of study population, by trimester exposure, CHAMACOS study, Salinas Valley, CA, 1999-2000 (N=442).

Characteristics	All (N=442)	Trimester 1 (N=338)	Trimester 2 (N=408)	Trimester 3 (N=390)
Maternal Age				
<20	40 (9.1%)	27 (8.0%)	36 (8.8%)	31 (8.0%)
20 – 24	163 (36.9%)	116 (34.3%)	151 (37.0%)	142 (36.4%)
25 – 29	144 (32.6%)	114 (33.7%)	134 (32.8%)	129 (33.1%)
30 – 34	66 (14.9%)	56 (16.6%)	58 (14.2%)	61 (15.6%)
≥35	29 (6.6%)	25 (7.4%)	29 (7.1%)	27 (6.9%)
Parity				
0	139 (31.5%)	89 (26.3%)	129 (31.6%)	114 (29.2%)
≥1	303 (68.6%)	249 (73.7%)	279 (68.4%)	276 (70.8%)
Race/Ethnicity				
Latina	426 (96.4%)	328 (97.0%)	394 (96.6%)	375 (96.2%)
Non-Latina, White	7 (1.6%)	5 (1.5%)	5 (1.2%)	7 (1.8%)
Other	9 (2.0%)	5 (1.5%)	9 (2.2%)	8 (2.1%)
Marital Status				
Married or living as married	356 (80.5%)	281 (83.1%)	329 (80.6%)	317 (81.3%)
Unmarried	86 (19.5%)	57 (16.9%)	79 (19.4%)	73 (18.7%)
Maternal education				
≤ 6th grade	188 (42.5%)	143 (42.3%)	171 (41.9%)	168 (43.1%)
Some high school	158 (35.8%)	121 (35.8%)	148 (36.3%)	138 (35.4%)
High school graduate	96 (21.7%)	74 (21.9%)	89 (21.8%)	84 (21.5%)
Family income				
At or below poverty	272 (61.5%)	215 (63.6%)	250 (61.3%)	240 (61.5%)
Poverty – 200%	154 (34.8%)	109 (32.3%)	144 (35.3%)	137 (35.1%)
>200%	16 (3.6%)	14 (4.1%)	14 (3.4%)	13 (3.3%)
Country of birth				
United States	59 (13.4%)	41 (12.1%)	54 (13.2%)	54 (13.9%)
Mexico	374 (84.6%)	292 (86.4%)	345 (84.6%)	327 (83.9%)
Other	9 (2.0%)	5 (1.5%)	9 (2.2%)	9 (2.3%)
Years of residence in the U.S.				
≤ 5 years	230 (52.0%)	166 (49.1%)	213 (52.2%)	195 (50.0%)
6 – 10 years	99 (22.4%)	82 (24.3%)	92 (22.6%)	92 (23.6%)
11+ years	63 (14.3%)	56 (16.6%)	58 (14.2%)	58 (14.9%)
Entire life	50 (11.3%)	34 (10.1%)	45 (11.0%)	45 (11.5%)
Work status during pregnancy				
Did not work	172 (38.9%)	127 (37.6%)	156 (38.2%)	153 (39.2%)
Some field or agricultural work	181 (41.0%)	143 (42.3%)	168 (41.2%)	160 (41.0%)
Other work	89 (20.1%)	68 (20.1%)	84 (20.6%)	77 (19.7%)
Prepregnancy body mass index (kg/m²)				
Underweight (<18.5)	2 (0.5%)	1 (0.3%)	2 (0.5%)	2 (0.5%)

Characteristics	All (N=442)	Trimester 1 (N=338)	Trimester 2 (N=408)	Trimester 3 (N=390)
Normal (18.5 – 24.9)	170 (38.5%)	122 (36.1%)	158 (38.7%)	142 (36.4%)
Overweight (25 – 29.9)	175 (39.6%)	133 (39.4%)	161 (39.5%)	161 (41.3%)
Obese (>30)	95 (21.5%)	82 (24.3%)	87 (21.3%)	85 (21.8%)
Smoked during pregnancy				
Yes	26 (5.9%)	18 (5.3%)	23 (5.6%)	23 (5.9%)
No	416 (94.1%)	320 (94.7%)	385 (94.4%)	367 (94.1%)
Any moves during pregnancy				
Yes	182 (41.2%)	78 (23.1%)	148 (36.3%)	136 (34.9%)
No	260 (58.8%)	260 (76.9%)	260 (63.7%)	254 (65.1%)
Low birth weight ^a infant				
Yes	17 (3.9%)	12 (3.6%)	16 (3.9%)	17 (4.4%)
No	425 (96.2%)	326 (96.5%)	392 (96.1%)	373 (95.6%)
Preterm ^b infant				
Yes	30 (6.8%)	23 (6.8%)	29 (7.1%)	28 (7.2%)
No	412 (93.2%)	315 (93.2%)	379 (92.9%)	362 (92.8%)

a Low birth weight is defined as <2,500 g

b Preterm birth is defined as <37 weeks' gestation

Supplemental Material, Table S2. Categorical analysis of associations [β (95% CI)] of proximity to any methyl bromide use (vs. none) in the first and third trimesters with fetal growth parameters and length of gestation, CHAMACOS study, Salinas Valley, CA, 1999-2000. (N=442)

Group	N	Birth weight (g) ^a		p-value	Length (cm) ^a		p-value	Head circumference (cm) ^a		p-value	Gestational age ^b		p-value
Trimester 1													
1 km: none	283	Ref			Ref			Ref			Ref		
1 km: any	55	-14.4	(-138.5, 109.8)	0.82	0.08	(-0.60, 0.77)	0.81	0.13	(-0.25, 0.52)	0.50	0.19	(-0.29, 0.67)	0.44
3 km: none	136	Ref			Ref			Ref			Ref		
3 km: any	202	-27.7	(-122.1, 66.6)	0.56	0.07	(-0.45, 0.58)	0.80	-0.09	(-0.38, 0.21)	0.56	0.39	(0.03, 0.75)	0.04
5 km: none	73	Ref			Ref			Ref			Ref		
5 km: any	265	-21.5	(-134.6, 91.5)	0.71	-0.12	(-0.74, 0.50)	0.71	-0.15	(-0.50, 0.21)	0.42	0.64	(0.21, 1.07)	<0.01
8 km: none	49	Ref			Ref			Ref			Ref		
8 km: any	289	16.2	(-113.8, 146.2)	0.81	0.26	(-0.45, 0.97)	0.48	-0.11	(-0.52, 0.30)	0.59	0.27	(-0.24, 0.78)	0.30
Trimester 3													
1 km: none	337	Ref			Ref			Ref			Ref		
1 km: any	53	-30.6	(-153.8, 92.7)	0.63	0.09	(-0.61, 0.79)	0.80	-0.02	(-0.42, 0.37)	0.91	-0.17	(-0.69, 0.35)	0.53
3 km: none	164	Ref			Ref			Ref			Ref		
3 km: any	226	-5.2	(-90.2, 79.8)	0.90	0.07	(-0.41, 0.55)	0.78	-0.21	(-0.48, 0.06)	0.13	0.23	(-0.12, 0.59)	0.20
5 km: none	99	Ref			Ref			Ref			Ref		
5 km: any	291	-3.2	(-100.2, 93.8)	0.95	-0.01	(-0.56, 0.53)	0.97	-0.27	(-0.58, 0.04)	0.09	0.20	(-0.21, 0.61)	0.33
8 km: none	73	Ref			Ref			Ref			Ref		
8 km: any	317	-22.7	(-130.7, 85.3)	0.68	-0.11	(-0.72, 0.49)	0.72	-0.25	(-0.60, 0.09)	0.15	0.22	(-0.24, 0.68)	0.34

a Adjusted for maternal age, parity, prepregnancy body mass index, poverty, country of birth, week of initiating prenatal care, gestational age, and gestational age squared.

b Adjusted for maternal age, parity, prepregnancy body mass index, poverty, country of birth, and week of initiating prenatal care.