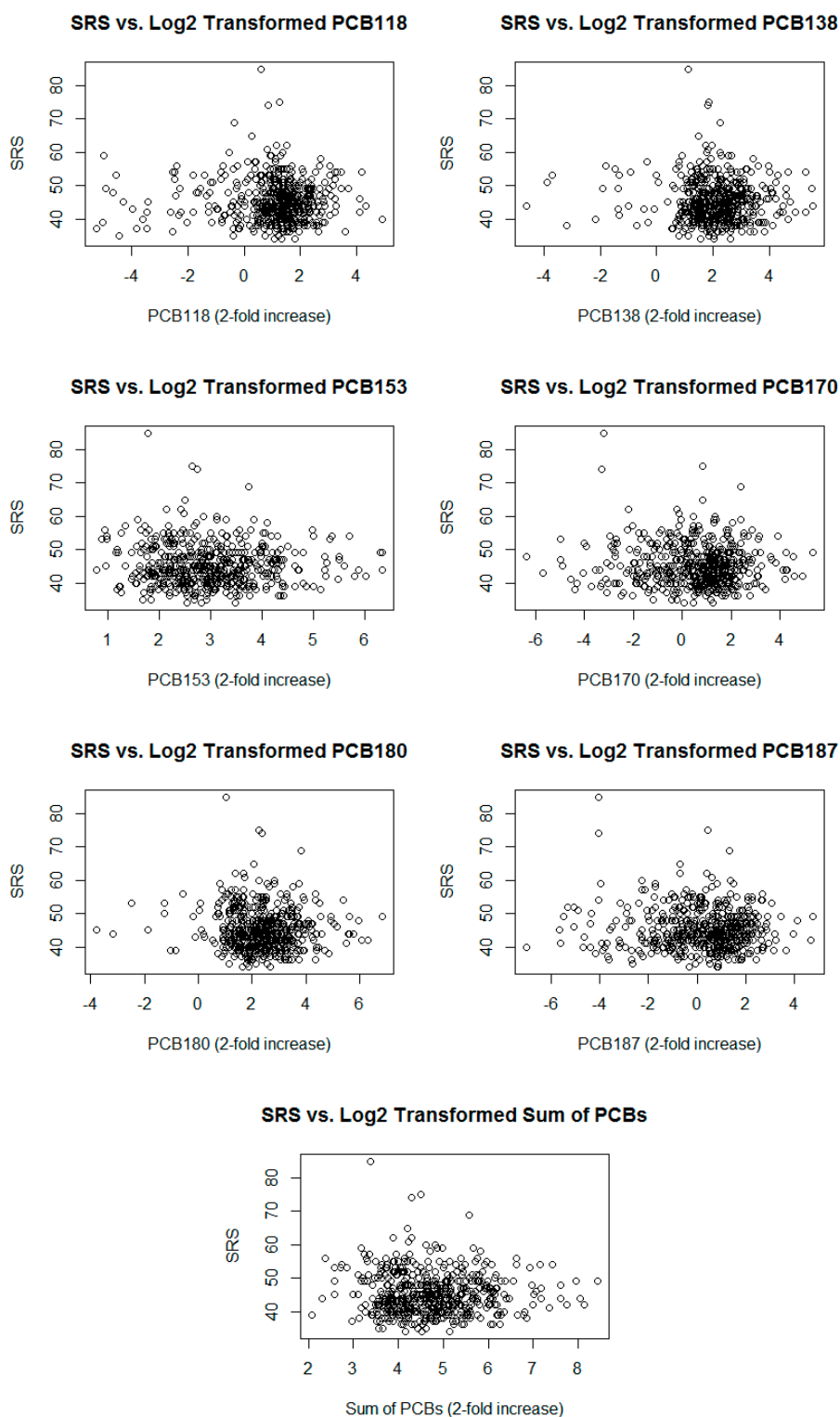


Supplementary materials for:

Assessing the Relation Between PCB Exposures During Pregnancy and Autistic Behaviour using Bayesian Predictive Odds Ratios

by Bernardo BA, Lanphear BP, Venners SA, Arbuckle TE, Braun JM, Muckle G, Fraser WD, and McCandless LC

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Supplementary Figure 1. Scatterplots for Log2 Transformed Plasma PCB levels (quartiles) in relation to mean child SRS score in MIREC study participants.

Supplementary Table 1. Regression coefficients for the relation between participant covariates and mean SRS score in MIREC study participants, Canada, 2008-2011 using Multiple Linear Regression (n=546).

	n (%)	SRS Unadjusted mean scores (95% CI)	SRS Adjusted ¹ mean scores (95% CI)
Child Sex			
Intercept		44.2 (43.5, 44.9)	45.5 (41.7, 49.4)
Female	285 (52.2)	0.0 (referent)	0.0
Male	261 (47.8)	2.4 (1.4, 3.4)	2.3 (1.3, 3.3)
Mother's Age			
Intercept		46.7 (45.6, 47.8)	45.5 (41.7, 49.4)
19-29	122 (22.3)	0.0	0.0
30-34	205 (37.5)	-1.3 (-2.7, 0.0)	-0.2 (-1.6, 1.2)
35+	219 (40.0)	-2.2 (-3.5, -0.8)	-1.1 (-2.5, 0.3)
Race			
Intercept		45.2 (44.6, 45.7)	45.5 (41.7, 49.4)
White	491 (89.9)	0.0	0.0
Other	55 (10.1)	1.7 (0.0, 3.4)	1.4 (-0.4, 3.1)
Marital Status			
Intercept		44.7 (44.1, 45.3)	45.5 (41.7, 49.4)
Married	241 (89.9)	0.0	0.0
Other	154 (28.2)	2.2 (1.1, 3.3)	1.5 (0.3, 2.7)
Education Level			
Intercept		47.8 (45.6, 50.0)	45.5 (41.7, 49.4)
High School Diploma or less	29 (5.3)	0.0	0.0
College or Trade School Diploma	154 (28.2)	-1.6 (-4.0, 0.8)	-0.9 (-3.3, 1.5)
Undergraduate University Degree	213 (39.0)	-2.3 (-4.7, 0.0)	-1.1 (-3.5, 1.3)
Graduate University Degree	150 (27.5)	-4.0 (-6.4, -1.6)	-2.3 (-4.8, 0.2)
Annual Income			

Intercept		47.2 (45.8, 48.6)	45.5 (41.7, 49.4)
<= \$40,000	73 (13.4)	0.0	0.0
\$40,001-\$80,000	151 (27.7)	-1.0 (-2.7, 0.7)	-0.3 (-2.1, 1.4)
\$80,001-\$100,000	105 (19.2)	-2.1 (-3.9, -0.3)	-1.1 (-3.0, 0.7)
> \$100,000	217 (39.7)	-3.0 (-4.6, -1.4)	-1.5 (-3.3, 0.3)
Has Ever Smoked During Pregnancy			
Intercept		45.2 (44.5, 44.5)	45.5 (41.7, 49.4)
No	357 (65.4)	0.0	0.0
Yes	189 (34.6)	0.4 (-0.6, 1.5)	0.3 (-0.8, 1.4)
Has Ever Consumed Alcohol During Pregnancy			
Intercept		45.4 (44.9, 46.0)	45.5 (41.7, 49.4)
No	455 (83.3)	0.0	0.0
Yes	91 (16.7)	-0.7 (-2.1, 0.7)	-0.8 (-2.2, 0.6)
Pre-Pregnancy BMI			
Intercept		45.2 (42, 48.5)	45.5 (41.7, 49.4)
Underweight	14 (2.6)	0.0	0.0
Normal	332 (60.8)	0.2 (-3.1, 3.5)	1.2 (-2.1, 4.4)
Overweight	112 (20.5)	-0.5 (-3.9, 2.9)	-0.1 (-3.4, 3.3)
Obese	88 (16.1)	0.7 (-2.8, 4.2)	0.9 (-2.6, 4.3)
¹ Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.			

Supplementary Table 2. Plasma PCB levels (quartiles) in relation to Social Awareness score of MIREC study participants using Multiple Linear Regression (n=546).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	108	0.0 (referent)	0.0
Q2	1.4-< 2.3	143	-1.83 (-3.33, -0.33)	-1.75 (-3.74, 0.23)
Q3	2.3-< 3.6	170	-1.65 (-3.08, -0.22)	-1.25 (-3.19, 0.70)
Q4	≥ 3.6	125	-2.30 (-3.87, -0.73)	-1.76 (-3.84, 0.33)
PCB138				
Q1	< 3.2	175	0.0	0.0
Q2	3.2-< 5.5	184	-1.22 (-2.61, 0.17)	-0.80 (-2.52, 0.92)
Q3	5.5-< 8.9	118	-0.04 (-1.65, 1.57)	0.47 (-1.51, 2.45)
Q4	≥ 8.9	69	-1.34 (-3.34, 0.66)	-0.69 (-3.01, 1.62)
PCB153				
Q1	< 4.2	87	0.0	0.0
Q2	4.2-< 7.4	178	-0.83 (-2.24, 0.58)	-0.78 (-2.85, 1.28)
Q3	7.4-< 11.7	144	-1.99 (-3.49, -0.49)	-1.65 (-3.93, 0.64)
Q4	≥ 11.7	137	-0.93 (-2.45, 0.59)	-0.27 (-2.60, 2.05)
PCB170				
Q1	< 1.5	227	0.0	0.0
Q2	1.5-< 2.6	141	-0.47 (-1.98, 1.04)	0.12 (-1.60, 1.85)
Q3	2.6-< 4.3	110	-1.45 (-3.10, 0.20)	-0.43 (-2.36, 1.51)
Q4	≥ 4.3	68	-0.30 (-2.31, 1.71)	0.67 (-1.63, 2.96)
PCB180				
Q1	< 3.4	154	0.0	0.0
Q2	3.4-< 6.1	182	-3.08 (-4.47, -1.69)	-2.93 (-4.76, -1.09)
Q3	6.1-< 10.4	120	-2.44 (-4.04, -0.84)	-2.03 (-4.15, 0.10)

Q4	≥ 10.4	90	-1.65 (-3.44, 0.14)	-1.17 (-3.49, 1.15)
PCB187				
Q1	< 0.92	197	0.0	0.0
Q2	$0.92 < 1.8$	124	-0.03 (-1.61, 1.55)	-0.19 (-1.94, 1.56)
Q3	$1.8 < 3.3$	135	-0.63 (-2.16, 0.90)	-0.22 (-2.03, 1.59)
Q4	≥ 3.3	90	-0.55 (-2.34, 1.24)	0.34 (-1.76, 2.44)
Sum of above PCBs				
Q1	< 33.4	358	0.0	0.0
Q2	$33.4 < 55.3$	110	-0.16 (-1.81, 1.49)	0.68 (-1.08, 2.43)
Q3	$55.3 < 86.3$	51	-0.40 (-2.70, 1.90)	0.31 (-2.10, 2.72)
Q4	≥ 86.3	27	-0.92 (-4.06, 2.22)	-0.30 (-3.46, 2.87)
* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.				

Supplementary Table 3. Plasma PCB levels (quartiles) in relation to Social Cognition score of MIREC study participants using Multiple Linear Regression (n=546).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	108	0.0 (referent)	0.0
Q2	1.4-< 2.3	143	-0.17 (-3.03, -0.63)	-0.16 (-1.75, 1.42)
Q3	2.3-< 3.6	170	-0.85 (-2.79, -0.51)	-0.49 (-2.05, 1.07)
Q4	≥ 3.6	125	-0.72 (-3.56, -1.04)	-0.22 (-1.88, 1.45)
PCB138				
Q1	< 3.2	175	0.0	0.0
Q2	3.2-< 5.5	184	-0.74 (-2.34, -0.10)	-0.09 (-1.46, 1.28)
Q3	5.5-< 8.9	118	-1.16 (-1.32, 1.24)	-0.52 (-2.10, 1.06)
Q4	≥ 8.9	69	0.06 (-2.94, 0.26)	0.72 (-1.12, 2.57)
PCB153				
Q1	< 4.2	87	0.0	0.0
Q2	4.2-< 7.4	178	-0.74 (-1.96, 0.30)	-0.48 (-2.12, 1.15)
Q3	7.4-< 11.7	144	-2.57 (-3.18, -0.80)	-2.06 (-3.87, -0.26)
Q4	≥ 11.7	137	-0.89 (-2.15, 0.29)	-0.09 (-1.93, 1.75)
PCB170				
Q1	< 1.5	227	0.0	0.0
Q2	1.5-< 2.6	141	-0.39 (-1.68, 0.74)	0.10 (-1.28, 1.47)
Q3	2.6-< 4.3	110	-1.13 (-2.77, -0.13)	-0.20 (-1.74, 1.34)
Q4	≥ 4.3	68	-0.57 (-1.91, 1.31)	0.21 (-1.62, 2.04)
PCB180				
Q1	< 3.4	154	0.0	0.0
Q2	3.4-< 6.1	182	-2.06 (-4.20, -1.96)	-1.41 (-2.87, 0.06)
Q3	6.1-< 10.4	120	-2.42 (-3.71, -1.17)	-1.47 (-3.18, 0.23)

Q4	≥ 10.4	90	-1.13 (-3.08, -0.22)	-0.48 (-2.33, 1.38)
PCB187				
Q1	< 0.92	197	0.0	0.0
Q2	$0.92 < 1.8$	124	-0.37 (-1.29, 1.23)	-0.55 (-1.94, 0.84)
Q3	$1.8 < 3.3$	135	-0.92 (-1.85, 0.59)	-0.55 (-1.99, 0.89)
Q4	≥ 3.3	90	-0.53 (-1.98, 0.88)	0.04 (-1.64, 1.71)
Sum of above PCBs				
Q1	< 33.4	358	0.0	0.0
Q2	$33.4 < 55.3$	110	-0.79 (-1.48, 1.16)	0.06 (-1.34, 1.46)
Q3	$55.3 < 86.3$	51	-0.03 (-2.24, 1.44)	0.22 (-1.70, 2.14)
Q4	≥ 86.3	27	0.47 (-3.43, 1.59)	1.14 (-1.38, 3.66)
* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.				

Supplementary Table 4. Plasma PCB levels (quartiles) in relation to Social Communication score of MIREC study participants using Multiple Linear Regression (n=546).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	108	0.0 (referent)	0.0
Q2	1.4-< 2.3	143	-0.21 (-3.04, -0.62)	0.08 (-1.49, 1.64)
Q3	2.3-< 3.6	170	-0.31 (-2.80, -0.50)	0.36 (-1.18, 1.89)
Q4	≥ 3.6	125	-0.11 (-3.56, -1.04)	0.71 (-0.93, 2.35)
PCB138				
Q1	< 3.2	175	0.0	0.0
Q2	3.2-< 5.5	184	0.10 (-2.34, -0.10)	0.76 (-0.59, 2.11)
Q3	5.5-< 8.9	118	-0.05 (-1.33, 1.25)	0.72 (-0.84, 2.27)
Q4	≥ 8.9	69	0.81 (-2.95, 0.27)	1.76 (-0.06, 3.57)
PCB153				
Q1	< 4.2	87	0.0	0.0
Q2	4.2-< 7.4	178	-0.22 (-1.96, 0.30)	0.10 (-1.52, 1.72)
Q3	7.4-< 11.7	144	-1.11 (-3.19, -0.79)	-0.31 (-2.10, 1.48)
Q4	≥ 11.7	137	0.15 (-2.15, 0.29)	1.34 (-0.49, 3.16)
PCB170				
Q1	< 1.5	227	0.0	0.0
Q2	1.5-< 2.6	141	-1.06 (-1.68, 0.74)	-0.46 (-1.82, 0.89)
Q3	2.6-< 4.3	110	-0.78 (-2.78, -0.12)	0.33 (-1.19, 1.84)
Q4	≥ 4.3	68	0.08 (-1.92, 1.32)	1.05 (-0.76, 2.85)
PCB180				
Q1	< 3.4	154	0.0	0.0
Q2	3.4-< 6.1	182	-2.33 (-4.20, -1.96)	-1.77 (-3.21, -0.33)
Q3	6.1-< 10.4	120	-1.51 (-3.72, -1.16)	-0.42 (-2.09, 1.25)

Q4	≥ 10.4	90	-0.42 (-3.08, -0.22)	0.47 (-1.35, 2.29)
PCB187				
Q1	< 0.92	197	0.0	0.0
Q2	$0.92 < 1.8$	124	-0.35 (-1.30, 1.24)	-0.48 (-1.86, 0.89)
Q3	$1.8 < 3.3$	135	-0.49 (-1.86, 0.60)	0.04 (-1.38, 1.46)
Q4	≥ 3.3	90	-0.17 (-1.99, 0.89)	0.70 (-0.95, 2.36)
Sum of above PCBs				
Q1	< 33.4	358	0.0	0.0
Q2	$33.4 < 55.3$	110	-0.03 (-1.49, 1.17)	0.99 (-0.38, 2.37)
Q3	$55.3 < 86.3$	51	0.32 (-2.25, 1.45)	0.88 (-1.01, 2.78)
Q4	≥ 86.3	27	0.86 (-3.44, 1.60)	1.67 (-0.81, 4.15)
* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.				

Supplementary Table 5. Plasma PCB levels (quartiles) in relation to Social Motivation score of MIREC study participants using Multiple Linear Regression (n=546).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	108	0.0 (referent)	0.0
Q2	1.4-< 2.3	143	-0.16 (-3.24, -0.42)	0.03 (-1.84, 1.90)
Q3	2.3-< 3.6	170	-1.02 (-2.99, -0.31)	-0.52 (-2.36, 1.32)
Q4	≥ 3.6	125	-0.62 (-3.78, -0.82)	0.01 (-1.95, 1.98)
PCB138				
Q1	< 3.2	175	0.0	0.0
Q2	3.2-< 5.5	184	-0.33 (-2.53, 0.09)	0.03 (-1.59, 1.65)
Q3	5.5-< 8.9	118	-0.73 (-1.55, 1.47)	-0.38 (-2.25, 1.49)
Q4	≥ 8.9	69	-0.42 (-3.22, 0.54)	0.01 (-2.17, 2.19)
PCB153				
Q1	< 4.2	87	0.0	0.0
Q2	4.2-< 7.4	178	-0.15 (-2.15, 0.49)	-0.12 (-2.07, 1.83)
Q3	7.4-< 11.7	144	-1.25 (-3.4, -0.58)	-0.96 (-3.11, 1.19)
Q4	≥ 11.7	137	-1.04 (-2.36, 0.50)	-0.58 (-2.77, 1.62)
PCB170				
Q1	< 1.5	227	0.0	0.0
Q2	1.5-< 2.6	141	-1.70 (-1.88, 0.94)	-1.72 (-3.34, -0.10)
Q3	2.6-< 4.3	110	-1.55 (-3.00, 0.10)	-1.19 (-3.01, 0.62)
Q4	≥ 4.3	68	-0.66 (-2.19, 1.59)	-0.61 (-2.76, 1.55)
PCB180				
Q1	< 3.4	154	0.0	0.0
Q2	3.4-< 6.1	182	-1.08 (-4.40, -1.76)	-0.96 (-2.69, 0.78)
Q3	6.1-< 10.4	120	-2.14 (-3.93, -0.95)	-1.62 (-3.64, 0.39)

Q4	≥ 10.4	90	-0.27 (-3.33, 0.03)	-0.18 (-2.38, 2.02)
PCB187				
Q1	< 0.92	197	0.0	0.0
Q2	$0.92 < 1.8$	124	-1.39 (-1.51, 1.45)	-1.44 (-3.08, 0.19)
Q3	$1.8 < 3.3$	135	-2.35 (-2.06, 0.80)	-2.22 (-3.91, -0.53)
Q4	≥ 3.3	90	-0.69 (-2.23, 1.13)	-0.45 (-2.41, 1.51)
Sum of above PCBs				
Q1	< 33.4	358	0.0	0.0
Q2	$33.4 < 55.3$	110	-1.29 (-1.71, 1.39)	-0.72 (-2.37, 0.93)
Q3	$55.3 < 86.3$	51	-0.11 (-2.56, 1.76)	-0.09 (-2.36, 2.18)
Q4	≥ 86.3	27	-0.33 (-3.87, 2.03)	0.09 (-2.89, 3.06)

* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.

Supplementary Table 6. Plasma PCB levels (quartiles) in relation to Restricted Interests and Repetitive Behaviour score of MIREC study participants using Multiple Linear Regression (n=546).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	108	0.0 (referent)	0.0
Q2	1.4-< 2.3	143	-0.64 (-3.17, -0.49)	-0.39 (-2.15, 1.38)
Q3	2.3-< 3.6	170	-0.34 (-2.92, -0.38)	0.16 (-1.57, 1.89)
Q4	≥ 3.6	125	-0.45 (-3.71, -0.89)	0.23 (-1.62, 2.08)
PCB138				
Q1	< 3.2	175	0.0	0.0
Q2	3.2-< 5.5	184	0.42 (-2.47, 0.03)	1.12 (-0.40, 2.64)
Q3	5.5-< 8.9	118	-0.26 (-1.48, 1.40)	0.32 (-1.43, 2.07)
Q4	≥ 8.9	69	1.13 (-3.13, 0.45)	1.91 (-0.13, 3.96)
PCB153				
Q1	< 4.2	87	0.0	0.0
Q2	4.2-< 7.4	178	0.50 (-2.09, 0.43)	0.93 (-0.89, 2.76)
Q3	7.4-< 11.7	144	-1.20 (-3.32, -0.66)	-0.53 (-2.55, 1.48)
Q4	≥ 11.7	137	0.41 (-2.29, 0.43)	1.34 (-0.72, 3.39)
PCB170				
Q1	< 1.5	227	0.0	0.0
Q2	1.5-< 2.6	141	-1.24 (-1.82, 0.88)	-0.83 (-2.36, 0.69)
Q3	2.6-< 4.3	110	-1.39 (-2.92, 0.02)	-0.60 (-2.31, 1.10)
Q4	≥ 4.3	68	0.60 (-2.10, 1.50)	1.27 (-0.76, 3.29)
PCB180				
Q1	< 3.4	154	0.0	0.0
Q2	3.4-< 6.1	182	-2.03 (-4.33, -1.83)	-1.61 (-3.23, 0.02)
Q3	6.1-< 10.4	120	-2.17 (-3.86, -1.02)	-1.51 (-3.40, 0.38)

Q4	≥ 10.4	90	-0.12 (-3.24, -0.06)	0.46 (-1.59, 2.52)
PCB187				
Q1	< 0.92	197	0.0	0.0
Q2	$0.92 < 1.8$	124	-0.93 (-1.44, 1.38)	-1.15 (-2.70, 0.39)
Q3	$1.8 < 3.3$	135	-0.74 (-2.00, 0.74)	-0.44 (-2.04, 1.16)
Q4	≥ 3.3	90	-0.13 (-2.15, 1.05)	0.48 (-1.38, 2.33)
Sum of above PCBs				
Q1	< 33.4	358	0.0	0.0
Q2	$33.4 < 55.3$	110	-0.78 (-1.63, 1.31)	-0.05 (-1.60, 1.50)
Q3	$55.3 < 86.3$	51	0.13 (-2.45, 1.65)	0.43 (-1.70, 2.56)
Q4	≥ 86.3	27	1.81 (-3.72, 1.88)	2.46 (-0.33, 5.26)

* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.

Supplementary Table 7. Plasma PCB levels (quartiles) in relation to SRS score of MIREC study participants with male babies using Multiple Linear Regression (n=261).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	55	0.0 (referent)	0.0
Q2	1.4-< 2.3	63	1.05 (-0.86, 2.96)	1.44 (-1.20, 4.08)
Q3	2.3-< 3.6	82	-0.11 (-1.87, 1.65)	0.85 (-1.63, 3.33)
Q4	≥ 3.6	61	-0.63 (-2.55, 1.29)	0.42 (-2.16, 3.01)
PCB138				
Q1	< 3.2	77	0.0	0.0
Q2	3.2-< 5.5	90	-0.49 (-2.21, 1.23)	0.03 (-2.23, 2.29)
Q3	5.5-< 8.9	61	-0.65 (-2.59, 1.29)	0.11 (-2.42, 2.64)
Q4	≥ 8.9	33	0.70 (-1.75, 3.15)	1.78 (-1.21, 4.76)
PCB153				
Q1	< 4.2	37	0.0	0.0
Q2	4.2-< 7.4	82	-0.72 (-2.48, 1.04)	-0.40 (-3.17, 2.36)
Q3	7.4-< 11.7	79	-3.01 (-4.76, -1.26)	-2.26 (-5.24, 0.73)
Q4	≥ 11.7	63	-0.42 (-2.32, 1.48)	0.56 (-2.52, 3.65)
PCB170				
Q1	< 1.5	109	0.0	0.0
Q2	1.5-< 2.6	72	-3.47 (-5.27, -1.67)	-2.79 (-4.90, -0.68)
Q3	2.6-< 4.3	50	-2.22 (-4.30, -0.14)	-1.76 (-4.20, 0.68)
Q4	≥ 4.3	30	0.01 (-2.54, 2.56)	1.19 (-1.84, 4.22)
PCB180				
Q1	< 3.4	74	0.0	0.0
Q2	3.4-< 6.1	89	-3.62 (-5.32, -1.92)	-3.54 (-5.83, -1.26)
Q3	6.1-< 10.4	59	-3.19 (-5.14, -1.24)	-2.90 (-5.57, -0.22)

Q4	≥ 10.4	39	-0.33 (-2.60, 1.94)	0.09 (-2.90, 3.08)
PCB187				
Q1	< 0.92	90	0.0	0.0
Q2	$0.92 < 1.8$	64	-0.03 (-1.94, 1.88)	-0.37 (-2.56, 1.82)
Q3	$1.8 < 3.3$	68	-0.77 (-2.63, 1.09)	-0.46 (-2.78, 1.86)
Q4	≥ 3.3	39	0.11 (-2.18, 2.40)	0.88 (-1.87, 3.63)
Sum of above PCBs				
Q1	< 33.4	172	0.0	0.0
Q2	$33.4 < 55.3$	54	-0.25 (-2.28, 1.78)	0.81 (-1.39, 3.00)
Q3	$55.3 < 86.3$	24	-0.31 (-3.18, 2.56)	0.18 (-2.95, 3.31)
Q4	≥ 86.3	11	1.65 (-2.40, 5.70)	2.94 (-1.25, 7.13)
* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.				

Supplementary Table 8. Plasma PCB levels (quartiles) in relation to SRS score of MIREC study participants with female babies using Multiple Linear Regression (n=285).

PCB Category	Value (ng/g lipid)	n	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118				
Q1	< 1.4	52	0.0 (referent)	0.0
Q2	1.4-< 2.3	81	-1.62 (-3.05, -0.19)	-1.56 (-3.46, 0.34)
Q3	2.3-< 3.6	89	-1.47 (-2.86, -0.08)	-0.84 (-2.74, 1.05)
Q4	≥ 3.6	63	-0.77 (-2.32, 0.78)	0.00 (-2.07, 2.06)
PCB138				
Q1	< 3.2	97	0.0	0.0
Q2	3.2-< 5.5	95	-0.37 (-1.73, 0.99)	0.55 (-1.10, 2.20)
Q3	5.5-< 8.9	58	-0.67 (-2.28, 0.94)	0.42 (-1.52, 2.37)
Q4	≥ 8.9	35	-0.38 (-2.35, 1.59)	0.63 (-1.58, 2.84)
PCB153				
Q1	< 4.2	49	0.0	0.0
Q2	4.2-< 7.4	97	-0.09 (-1.45, 1.27)	0.39 (-1.55, 2.32)
Q3	7.4-< 11.7	66	-0.94 (-2.47, 0.59)	0.37 (-1.83, 2.57)
Q4	≥ 11.7	73	-0.59 (-2.06, 0.88)	1.01 (-1.18, 3.20)
PCB170				
Q1	< 1.5	117	0.0	0.0
Q2	1.5-< 2.6	70	1.15 (-0.34, 2.64)	1.75 (0.05, 3.46)
Q3	2.6-< 4.3	61	-0.29 (-1.86, 1.28)	1.24 (-0.64, 3.12)
Q4	≥ 4.3	37	-0.03 (-1.95, 1.89)	1.23 (-0.90, 3.37)
PCB180				
Q1	< 3.4	79	0.0	0.0
Q2	3.4-< 6.1	94	-1.15 (-2.52, 0.22)	-0.18 (-1.98, 1.62)
Q3	6.1-< 10.4	62	-1.39 (-2.95, 0.17)	0.31 (-1.80, 2.43)

Q4	≥ 10.4	50	-0.75 (-2.44, 0.94)	0.57 (-1.65, 2.79)
PCB187				
Q1	< 0.92	106	0.0	0.0
Q2	$0.92 < 1.8$	61	-1.54 (-3.11, 0.03)	-1.05 (-2.78, 0.69)
Q3	$1.8 < 3.3$	68	-1.51 (-3.02, 0.00)	-0.38 (-2.15, 1.40)
Q4	≥ 3.3	50	-0.76 (-2.45, 0.93)	0.43 (-1.56, 2.42)
Sum of above PCBs				
Q1	< 33.4	185	0.0	0.0
Q2	$33.4 < 55.3$	57	-0.96 (-2.57, 0.65)	0.00 (-1.73, 1.74)
Q3	$55.3 < 86.3$	28	0.46 (-1.75, 2.67)	0.90 (-1.39, 3.20)
Q4	≥ 86.3	15	0.05 (-2.90, 3.00)	0.95 (-2.03, 3.92)
* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.				

Supplementary Table 9. Log2 Transformed Plasma PCB levels (quartiles) in relation to mean child SRS score in MIREC study participants, Canada, 2008-2011 using Multiple Linear Regression (n=546).

PCB (2-fold increase)	SRS Unadjusted mean scores (95% CI)	SRS Adjusted* mean scores (95% CI)
PCB118	-0.07 (-0.44, 0.30)	0.09 (-0.28, 0.46)
PCB138	-0.17 (-0.63, 0.28)	0.14 (-0.34, 0.61)
PCB153	-0.23 (-0.77, 0.32)	0.16 (-0.44, 0.75)
PCB170	-0.19 (-0.49, 0.12)	0.04 (-0.28, 0.37)
PCB180	-0.28 (-0.72, 0.16)	0.10 (-0.40, 0.60)
PCB187	-0.16 (-0.46, 0.14)	-0.04 (-0.36, 0.27)
Sum of above PCBs	-0.25 (-0.79, 0.28)	0.15 (-0.43, 0.73)

* Adjusted for child's sex, mother's age, race, marital status, education level, annual income, whether the mother has ever smoked during pregnancy, has ever consumed alcohol during pregnancy, and pre-pregnancy BMI.