

Supplemental Information

Supplemental Table 1. Crude and adjusted coefficients (95% CI) corresponding to a change in thyroid hormones measured in cord blood and blood spots associated with a 1 natural logarithmic unit change in lipid-adjusted PCB or PBDE

	Total T4 (mIU/l)		Free T4 (ng/dl)		Blood spot T4 #1 (ng/dl)		Blood spot T4 #2 (μ g/dl)	
	Crude	Adjusted ^a	Crude	Adjusted ^a	Crude	Adjusted ^b	Crude	Adjusted ^c
CB-118	0.02 (-0.09, 0.13)	0.04 (-0.08, 0.15)	-0.12 (-0.51, 0.26)	-0.13 (-0.52, 0.27)	0.00 (-0.02, 0.03)	0.01 (-0.02, 0.04)	0.56 (-0.33, 1.46)	0.53 (-0.38, 1.44)
CB-138_158	-0.02 (-0.11, 0.08)	0.02 (-0.10, 0.14)	-0.18 (-0.52, 0.16)	-0.10 (-0.52, 0.31)	0.00 (-0.03, 0.02)	0.01 (-0.02, 0.04)	0.26 (-0.56, 1.07)	0.67 (-0.30, 1.62)
CB-153	-0.03 (-0.13, 0.06)	-0.01 (-0.14, 0.12)	-0.19 (-0.53, 0.14)	-0.05 (-0.49, 0.40)	-0.01 (-0.03, 0.02)	0.00 (-0.03, 0.04)	0.14 (-0.67, 0.95)	0.62 (-0.42, 1.66)
CB-180	-0.07 (-0.15, 0.01)	-0.10 (-0.23, 0.02)	-0.23 (-0.52, 0.06)	-0.10 (-0.53, 0.34)	-0.01 (-0.03, 0.01)	0.00 (-0.03, 0.04)	-0.03 (-0.74, 0.67)	-0.32 (-1.13, 0.50)
Mono-ortho	0.02 (-0.09, 0.14)	0.04 (-0.09, 0.17)	-0.15 (-0.56, 0.25)	-0.11 (-0.54, 0.32)	0.00 (-0.03, 0.03)	0.00 (-0.03, 0.04)	0.44 (-0.59, 1.46)	-0.38 (-1.59, 0.84)
Di-ortho	-0.03 (-0.13, 0.66)	-0.01 (-0.14, 0.13)	-0.22 (-0.57, 0.12)	-0.11 (-0.57, 0.34)	-0.01 (-0.03, 0.02)	0.01 (-0.03, 0.04)	0.18 (-0.64, 1.01)	0.68 (-0.39, 1.74)
Cyp-inducers	-0.02 (-0.13, 0.08)	0.00 (-0.13, 0.13)	-0.21 (-0.57, 0.15)	-0.10 (-0.56, 0.36)	-0.01 (-0.03, 0.02)	0.01 (-0.03, 0.04)	0.23 (-0.62, 1.08)	0.66 (-0.40, 1.72)
BDE-47	-0.05 (-0.12, 0.02)	-0.03 (-0.11, 0.04)	0.12 (-0.14, 0.38)	-0.08 (-0.26, 0.19)	0.00 (-0.01, 0.02)	0.00 (-0.02, 0.02)	0.09 (-0.53, 0.71)	-0.04 (-0.68, 0.60)
BDE-100	-0.02 (-0.10, 0.06)	0.00 (-0.09, 0.08)	-0.04 (-0.32, 0.25)	-0.23 (-0.52, 0.06)	0.00 (-0.02, 0.02)	0.00 (-0.02, 0.02)	-0.23 (-0.91, 0.45)	-0.34 (-1.02, 0.34)
BDE-153	-0.04 (-0.11, 0.04)	-0.01 (-0.09, 0.07)	-0.15 (-0.42, 0.12)	-0.24 (-0.51, 0.03)	-0.01 (-0.03, 0.01)	-0.01 (-0.04, 0.01)	-0.25 (-0.91, 0.40)	-0.30 (-0.57, 0.35)

^a Covariates for TSH and total T4 models include baby's gender, gestational age, maternal age, maternal race, BMI, smoking status, history of hypertension, history of STDs

^b Covariates for free T4 models include baby's gender, gestational age, maternal age, maternal race, BMI, smoking status, parity, and diabetes, and anemia.

^c Covariates for total T4 models include time between blood spot collection and date of birth (in days), baby's gender, gestational age, maternal age, maternal race, BMI, and smoking.

Supplemental Information

Supplemental Table 2. Adjusted odds ratios (OR) and 95% CIs for thyroid hormone levels measured in cord blood and blood spots associated with a 1 natural logarithmic unit change in lipid-adjusted PCB or PBDE

	Total T4 ^a (mIU/l)	Free T4 ^b (ng/dl)	Blood spot T4 (#1) ^c (μ g/dl)	Blood spot T4 (#2) ^c (μ g/dl)	Blood spot T4 (#2) ^c “Low” vs “Low” vs Highest 80%	Blood spot T4 (#2) ^c “Low” vs Highest 80%
PCB-118	1.08 (0.66, 1.77)	1.35 (0.84, 2.16)	0.99 (0.61, 1.59)	0.86 (0.50, 1.48)	1.46 (0.95, 2.27)	
PCB-138_158	1.03 (0.62, 1.72)	1.36 (0.82, 2.26)	0.92 (0.56, 1.51)	0.80 (0.46, 1.38)	1.46 (0.91, 2.33)	
PCB-153	0.92 (0.53, 1.58)	1.18 (0.70, 2.00)	1.08 (0.64, 1.83)	0.96 (0.53, 1.72)	1.35 (0.82, 2.21)	
PCB-180	0.67 (0.39, 1.16)	1.13 (0.69, 1.86)	0.97 (0.58, 1.64)	1.00 (0.57, 1.75)	1.06 (0.65, 1.72)	
Mono-ortho	1.12 (0.66, 1.92)	1.36 (0.81, 2.26)	1.02 (0.60, 1.73)	0.84 (0.46, 1.53)	1.45 (0.91, 2.32)	
Di-ortho	0.93 (0.53, 1.63)	1.29 (0.75, 2.21)	1.00 (0.58, 1.73)	0.88 (0.48, 1.62)	1.36 (0.82, 2.25)	
Cyp-inducers	0.95 (0.54, 1.66)	1.25 (0.73, 2.15)	0.99 (0.57, 1.72)	0.94 (0.51, 1.71)	1.35 (0.82, 2.23)	
PBDE-47	0.68 (0.47, 0.98)	1.16 (0.83, 1.63)	1.07 (0.78, 1.48)	0.96 (0.66, 1.39)	0.85 (0.61, 1.19)	
PBDE-100	0.92 (0.63, 1.33)	1.41 (0.99, 2.01)	1.06 (0.75, 1.49)	1.10 (0.74, 1.62)	1.14 (0.80, 1.62)	
PBDE-153	0.92 (0.65, 1.29)	1.32 (0.95, 1.82)	1.37 (1.00, 1.88)	1.06 (0.74, 1.52)	1.00 (0.71, 1.42)	

“High”: being in the highest quintile

“Low”: being in the lowest quintile

^a Covariates for TSH and total T4 models include baby’s gender, gestational age, maternal age, maternal race, BMI, smoking status, parity, and history of STDs

^b Covariates for free T4 models include baby’s gender, gestational age, maternal age, maternal race, BMI, smoking status, history of hypertension, diabetes, and anemia.

^c Covariates for total T4 models include time between blood spot collection and date of birth (in days), baby’s gender, gestational age, maternal age, maternal race, BMI, and smoking.