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## **Supplemental Material**

## Urinary Bisphenol A Levels during Pregnancy and Risk of Preterm Birth

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**Table S1.** Odds ratios (95% confidence intervals) of overall preterm birth in association with quartiles of random BPA slopes and intercepts generated by linear mixed effect models.

	Model 1			Model 2 <sup>a</sup>			Model 3 <sup>b</sup>		
Overall Preterm	N	OR (95% CI)	р	N	OR (95% CI)	р	N	OR (95% CI)	р
	(cases, controls)			(cases, controls)			(cases, controls)		
Random Intercept	130, 352	1.64 (0.73, 3.65)	0.23	127, 334	1.56 (0.61, 4.01)	0.36	127, 334	1.43 (0.55, 3.70)	0.46
Quartiled slopes of BPA									
exposure across pregnancy									
Quartile 1		REF			REF			REF	
< -0.000199									
Quartile 2		0.60 (0.33, 1.07)	0.09		0.55 (0.29, 1.05)	0.07		0.54 (0.28, 1.03)	0.06
-0.000199 to -0.0000164									
Quartile 3		1.01 (0.59, 1.75)	0.97		0.94 (0.52, 1.72)	0.84		0.88 (0.48, 1.63)	0.68
-0.0000165 to 0.000174									
Quartile 4 ≥0.000175		0.78 (0.45, 1.37)	0.39		0.81 (0.43, 1.53)	0.51		0.76 (0.40, 1.45)	0.41

<sup>&</sup>lt;sup>a</sup>Model adjusted for specific gravity, maternal age, race, maternal educational level attained, medical insurance, parity, prior history of PTB, and BMI.

<sup>&</sup>lt;sup>b</sup>Additional adjustment for geometric average sum of DEHP metabolites.

**Table S2.** Odds ratios (95% confidence intervals) of combined preterm sub-categories in association with ln-unit increase in BPA concentration (ng/mL).

	Model 1 <sup>a</sup>			Model 2 <sup>b</sup>			Model 3 <sup>c</sup>		
Spontaneous/Placental PTB	N	OR (95% CI)	р	N	OR (95% CI)	р	N	OR (95% CI)	р
	(cases, controls)			(cases, controls)			(cases, controls)		
GM Average (Visit 1-3)	91, 352	1.52 (1.02, 2.27)	0.04	89, 338	1.45 (0.89, 2.37)	0.13	89, 338	1.33 (0.81, 2.18)	0.27
Visit 1	91, 351	1.27 (0.96, 1.67)	0.09	89, 337	1.10 (0.81, 1.51)	0.54	89, 337	1.05 (0.76, 1.45)	0.75
Visit 2	83, 304	1.28 (0.95, 1.74)	0.11	81, 295	1.35 (0.95, 1.90)	0.09	81, 295	1.34 (0.94, 1.91)	0.10
Visit 3	79, 301	0.95 (0.70, 1.27)	0.70	77, 291	0.91 (0.65, 1.28)	0.59	77, 291	0.81 (0.56, 1.18)	0.27
Visit 4	40, 314	1.51 (1.02, 2.22)	0.04	38, 302	1.96 (1.23, 3.12)	0.004	38, 302	1.80 (1.11, 2.92)	0.02
Combined Model (Visit 1-3) <sup>d</sup>	73, 263			71, 256			71, 256		
Visit1		1.18 (0.83, 1.68)	0.36		1.06 (0.72, 1.58)	0.76		1.05 (0.70, 1.56)	0.82
Visit2		1.30 (0.92, 1.83)	0.14		1.43 (0.97, 2.11)	0.07		1.39 (0.93, 2.06)	0.11
Visit3		0.89 (0.65, 1.23)	0.48		0.84 (0.59, 1.20)	0.33		0.79 (0.55, 1.14)	0.21

<sup>&</sup>lt;sup>a</sup>Adjusted for specific gravity. <sup>b</sup>Model adjusted for specific gravity, maternal age, race, maternal educational level attained, medical insurance, parity, prior history of PTB, and BMI. <sup>c</sup>Additional adjustment for geometric average sum of DEHP metabolites. <sup>d</sup>Combined model adjusted for all three study visits simultaneously.