

Supplementary Table 1. Best fit fractional polynomial function for BMI for each model degree trajectory.

Model degree	Terms included in best fit model for each degree								Goodness of Fit ^a	
	Age ⁽⁻²⁾	Age ⁽⁻¹⁾	Age ^(-0.5)	log(Age)	Age ^(0.5)	Age	Age ⁽²⁾	Age ⁽³⁾	AIC	BIC
Male (N=108)										
3 rd				X	X	X			3484.8	3514.3
4 th	X		X		X	X			3482.5	3525.4
5 th	X	X		X	X	X			2920.6	2074.3
6 th			X	X	X	X	X	X	3478.9	3554.0
6 th	X	X	X	X	X	X	X		3478.9	3554.0
8 th	X	X	X	X	X	X	X	X	3495.9	3592.4
Female (N=115)										
3 rd				X	X	X			3982.6	4012.8
4 th					X	X	X	X	3979.1	4020.3
5 th		X	X		X	X		X	1411.1	1463.2
6 th	X	X	X	X			X	X	3973.9	4050.8
7 th	X	X	X	X	X	X	X		3981.6	4058.5
8 th	X	X	X	X	X	X	X	X	3982.5	4081.3

Abbreviations: Akaike Information Criterion (AIC); Bayesian Information Criterion (BIC)

^aFinal model selection based on smallest AIC and BIC are indicated in bold

Supplementary Table 2. Distribution of total (free+glucuronidated) BPA and phthalate metabolites in third trimester maternal urine (ng/mL uncorrected for dilution).

Analyte	LOQ ^a	Subject	N	%>LOQ	GM(SE) ^b	25 th	50 th	75 th	<i>p</i> -value
BPA	0.4	Male	107	64	0.7(2.0)	<LOQ	0.6	1.1	0.05 ^a
		Female	116	74	0.9(2.1)	<LOQ	0.7	1.4	
MBP	0.5	Male	107	100	53.3(3.1)	25.5	58	112	1
		Female	116	100	54.3(3.5)	26.4	54.2	119	
MBzP	0.2	Male	107	99	4.3(2.5)	2.6	5.2	7.7	0.18
		Female	116	100	4.1(2.7)	2.2	3.7	7	
MCPP	0.2	Male	107	94	1.2(2.5)	0.6	1.3	2.3	0.36
		Female	116	94	1.1(2.7)	0.5	1.1	1.9	
MEP	1	Male	107	100	108.9(2.4)	44.6	111	222	0.8
		Female	116	99	114.5(2.8)	40.8	115.5	241	
MiBP	0.2	Male	107	98	1.8(2.7)	0.9	1.7	3.6	0.33
		Female	116	98	2.0(2.9)	1	2	3.6	
MEHP	1	Male	107	89	5.0(3.5)	2.5	6.1	10	1
		Female	116	91	5.2(2.6)	2.5	5.6	9.5	
MECPP	0.2	Male	107	100	31.9(2.6)	19.4	33.7	58.3	0.99
		Female	116	100	30.9(2.9)	15.1	35.4	58.1	
MEHHP	0.1	Male	107	100	19.4(3.6)	10.6	16.9	42.7	0.83
		Female	116	100	19.1(4.7)	9.1	22.7	37.5	
MEOHP	0.1	Male	107	100	11.6(2.7)	6	11.2	25.2	0.83
		Female	116	100	11.6(2.9)	5.8	13.3	24.7	

^aLOQ: limit of quantification^bGM: geometric mean(standard error)**p*-value from Wilcoxon-Mann-Whitney test for differences between males and females

Supplementary Table 3. Likelihood ratio test for full BMI model with SG-corrected metabolite, interaction terms, and covariates compared to null age polynomial and covariates model.

Analyte	Males		Females	
	-2LL full ^a	<i>P</i> -value	-2LL full ^a	* <i>P</i> -value
BPA	3394.8	0.84	3767.3	0.57
MBP	3383.9	0.11	3762.6	0.23
MiBP	3373.3	0.004	3763.9	0.31
MBzP	3372.6	0.003	3764.7	0.36
MCPP	3381.3	0.05	3768.6	0.68
MEP	3385.7	0.17	3761.0	0.15
MEHP	3370.5	0.002	3766.4	0.49
MEHHP	3372.8	0.004	3768.5	0.68
MEOHP	3381.3	0.05	3769.0	0.72
MECPP	3386.6	0.22	3749.6	0.005

^aFull model contains specific-gravity-corrected metabolites, covariates, age polynomials, and their interactions; compared to null model (3402.1 males; 3777.8 females)

**P*-value comparing null to full model; significance indicates full model has better fit