

Supplementary Table S1 Adjusted^a mean shift (95% confidence intervals) in age at pubertal milestones in girls and boys associated with different quartiles of prenatal and childhood urinary biomarker concentrations.

Biomarker	Girls			Boys	
	Thelarche (B2+) Mean shift (months)	Pubarche (PH2+) Mean shift (months)	Menarche Mean shift (months)	Gonadarche (G2+) Mean shift (months)	Pubarche (PH2+) Mean shift (months)
Prenatal concentrations ^b					
MEP					
Q1	Ref	Ref ^d	Ref	Ref	Ref
Q2	-3.8 (-9.0, 1.6)	1.3 (-4.1, 7.1)	-0.8 (-5.1, 3.6)	0.9 (-6.6, 8.9)	-3.4 (-9.6, 3.1)
Q3	-4.2 (-9.3, 1.2)	-2.5 (-8.0, 3.2)	-2.1 (-6.3, 2.3)	1.5 (-5.9, 9.3)	-3.7 (-9.6, 2.5)
Q4	-5.2 (-10.3, 0.1)	-6.1 (-11.3, -0.6)*	-1.4 (-5.7, 3.1)	-3.8 (-11.1, 3.9)	-4.5 (-10.3, 1.5)
MBP					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	-0.5 (-6.3, 5.7)	-0.6 (-6.4, 5.6)	-2.1 (-6.5, 2.5)	-3.7 (-10.6, 3.6)	-0.2 (-6.4, 6.2)
Q3	0.1 (-5.8, 6.3)	0.5 (-5.5, 6.8)	-2.1 (-6.8, 2.7)	-0.2 (-7.1, 7.1)	-3.2 (-8.8, 2.6)
Q4	-0.6 (-6.5, 5.6)	1.6 (-4.5, 8.0)	-2.8 (-7.3, 2.0)	5.2 (-2.2, 13.1)	0.7 (-5.4, 7.1)
MiBP					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	-1.0 (-6.6, 4.9)	-3.2 (-8.9, 2.8)	0.1 (-4.6, 5.0)	-5.0 (-11.7, 2.2)	1.8 (-4.1, 8.0)
Q3	6.5 (1.0, 12.3)*	2.9 (-2.9, 8.9)	-1.3 (-5.6, 3.1)	-4.5 (-11.9, 3.4)	2.6 (-4.3, 9.7)
Q4	-2.6 (-7.8, 2.8)	-4.0 (-9.4, 1.7)	-1.5 (-5.8, 3.0)	-4.5 (-11.6, 3.0)	-1.7 (-7.5, 4.4)
Triclosan					
Q1	Ref	Ref	Ref ^d	Ref	Ref
Q2	2.1 (-3.6, 8.2)	3.7 (-2.1, 9.9)	3.0 (-1.4, 7.6)	2.2 (-5.1, 9.9)	3.2 (-3.0, 9.6)
Q3	1.2 (-4.6, 7.3)	-0.4 (-6.5, 6.0)	-1.4 (-5.7, 2.9)	-2.5 (-9.2, 4.6)	0.2 (-5.2, 5.9)
Q4	-2.4 (-7.7, 3.3)	-1.1 (-6.8, 4.9)	-4.2 (-8.1, -0.2)*	-4.9 (-11.6, 2.2)	-3.8 (-9.1, 1.7)
Benzophenone-3					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	-0.1 (-6.2, 6.3)	3.6 (-2.8, 10.3)	-3.1 (-7.5, 1.4)	0.6 (-6.3, 7.9)	-2.9 (-8.5, 3.0)
Q3	-3.3 (-8.9, 2.7)	7.2 (0.8, 13.8)*	1.8 (-2.6, 6.4)	-5.0 (-11.4, 1.8)	3.2 (-2.8, 9.5)
Q4	-0.7 (-6.2, 4.9)	3.5 (-2.3, 9.5)	-3.1 (-7.1, 1.0)	10.4 (2.0, 19.3)*	2.1 (-4.9, 9.4)
Methyl paraben					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	2.1 (-3.6, 8.2)	0.0 (-6.0, 6.3)	2.3 (-2.2, 7.0)	1.9 (-5.9, 10.2)	2.7 (-3.4, 9.1)
Q3	2.4 (-3.2, 8.3)	5.9 (0.0, 12.1)	2.5 (-1.6, 6.8)	3.1 (-5.2, 11.9)	-1.9 (-8.1, 4.5)
Q4	0.9 (-4.5, 6.6)	0.4 (-5.2, 6.3)	-3.2 (-7.2, 1.0)	0.5 (-7.1, 8.6)	0.9 (-5.1, 7.0)
Propyl paraben					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	1.9 (-3.6, 7.6)	5.6 (-0.3, 11.7)	0.0 (-4.1, 4.3)	-4.2 (-11.4, 3.5)	2.5 (-3.7, 8.9)
Q3	-2.2 (-7.5, 3.4)	-0.2 (-6.0, 5.8)	-1.3 (-5.6, 3.1)	2.8 (-4.7, 10.7)	1.6 (-4.4, 7.9)
Q4	3.2 (-2.7, 9.3)	4.2 (-1.9, 10.5)	-2.1 (-6.4, 2.4)	-4.0 (-10.9, 3.4)	1.7 (-4.3, 7.9)
2,4-dichlorophenol					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	0.5 (-5.1, 6.3)	1.4 (-4.4, 7.6)	-1.2 (-5.4, 3.1)	8.7 (0.5, 17.3)*	0.0 (-6.3, 6.5)

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Supplementary Table SI *Continued*

Biomarker	Girls			Boys	
	Thelarche (B2+) Mean shift (months)	Pubarche (PH2+) Mean shift (months)	Menarche Mean shift (months)	Gonadarche (G2+) Mean shift (months)	Pubarche (PH2+) Mean shift (months)
Q3	-3.7 (-9.2, 2.2)	-0.7 (-6.8, 5.7)	-3.3 (-7.5, 1.1)	-3.1 (-10.0, 4.1)	-1.5 (-7.3, 4.6)
Q4	-3.8 (-9.3, 1.9)	-1.0 (-6.9, 5.1)	-3.3 (-7.5, 1.0)	-0.8 (-7.6, 6.4)	-3.3 (-9.0, 2.7)
2,5-dichlorophenol					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	0.0 (-5.8, 6.1)	0.7 (-5.3, 7.0)	-1.7 (-6.0, 2.8)	4.4 (-3.2, 12.6)	6.7 (0.3, 13.3)*
Q3	1.0 (-4.6, 7.0)	-0.6 (-6.3, 5.4)	-2.3 (-6.4, 2.1)	0.0 (-7.3, 7.8)	1.0 (-4.8, 7.1)
Q4	-2.1 (-7.5, 3.6)	0.3 (-5.4, 6.4)	-2.5 (-6.6, 1.6)	0.4 (-7.1, 8.3)	3.2 (-2.9, 9.5)
Peripubertal concentrations ^c					
Triclosan					
Q1	Ref	Ref ^d	Ref	Ref	Ref
Q2	-0.4 (-6.7, 6.2)	3.0 (-3.1, 9.4)	4.1 (-0.9, 9.3)	-5.2 (-11.5, 1.4)	-1.9 (-7.7, 4.1)
Q3	0.6 (-5.5, 7.1)	5.1 (-0.8, 11.3)	2.4 (-2.2, 7.2)	-2.1 (-8.9, 5.2)	-2.8 (-8.6, 3.2)
Q4	-0.2 (-6.2, 6.1)	6.1 (0.0, 12.4)*	2.1 (-2.6, 6.9)	-3.8 (-10.6, 3.4)	1.0 (-5.4, 7.6)
Benzophenone-3					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	-2.1 (-7.8, 3.9)	-0.1 (-5.8, 5.9)	-1.6 (-6.1, 3.0)	0.3 (-6.8, 7.8)	-2.0 (-7.9, 4.2)
Q3	-6.3 (-11.9, -0.3)*	-5.4 (-11.0, 0.4)	-0.8 (-5.6, 4.1)	-4.9 (-11.2, 1.7)	-5.3 (-10.9, 0.5)
Q4	-1.0 (-6.8, 5.1)	0.1 (-5.6, 6.0)	-1.2 (-5.8, 3.5)	-3.4 (-10.9, 4.6)	-4.4 (-10.9, 2.4)
Methyl paraben					
Q1	Ref ^d	Ref ^d	Ref ^d	Ref ^d	Ref ^d
Q2	3.0 (-3.1, 9.5)	1.2 (-4.6, 7.3)	-4.9 (-9.4, -0.2)*	2.8 (-4.1, 10.1)	4.8 (-1.2, 11.0)
Q3	-3.4 (-8.9, 2.5)	-1.3 (-6.7, 4.3)	-3.7 (-7.9, 0.6)	-0.5 (-7.8, 7.3)	8.5 (1.6, 15.7)*
Q4	-4.5 (-9.8, 1.1)	-6.4 (-11.6, -1.0)*	-6.1 (-10.3, -1.7)**	-0.8 (-8.3, 7.3)	6.3 (-0.4, 13.3)
Propyl paraben					
Q1	Ref	Ref	Ref	Ref ^d	Ref
Q2	1.1 (-4.8, 7.5)	2.6 (-3.4, 8.9)	-0.3 (-5.0, 4.7)	-0.3 (-6.9, 6.7)	-3.2 (-8.8, 2.6)
Q3	1.7 (-4.5, 8.3)	1.9 (-3.8, 7.8)	-0.3 (-4.9, 4.4)	-2.1 (-8.6, 4.7)	4.2 (-2.2, 10.9)
Q4	-2.9 (-8.3, 2.7)	-4.9 (-10.0, 0.4)	-3.8 (-8.0, 0.5)	-9.8 (-16.2, -3.2)**	-3.1 (-9.0, 3.1)
2,4-dichlorophenol					
Q1	Ref	Ref	Ref	Ref	Ref
Q2	-1.7 (-7.9, 4.8)	1.7 (-4.6, 8.3)	-1.3 (-6.2, 3.8)	-7.1 (-13.2, -0.8)*	-1.9 (-7.7, 4.1)
Q3	3.1 (-3.8, 10.4)	2.8 (-3.7, 9.6)	0.5 (-4.6, 5.8)	-3.3 (-10.3, 4.1)	1.4 (-5.0, 8.2)
Q4	1.2 (-5.2, 8.1)	3.1 (-3.4, 10.1)	-1.9 (-6.6, 3.0)	-5.3 (-12.0, 1.7)	-0.6 (-6.6, 5.7)
2,5-dichlorophenol					
Q1	Ref	Ref ^d	Ref	Ref	Ref
Q2	-5.0 (-10.6, 1.0)	-2.8 (-8.3, 3.0)	-1.7 (-6.1, 2.9)	4.5 (-3.1, 12.5)	0.3 (-6.0, 6.9)
Q3	-4.9 (-10.3, 0.7)	-1.5 (-6.9, 4.0)	-2.9 (-7.3, 1.6)	6.4 (-1.7, 14.9)	3.0 (-3.6, 9.9)
Q4	1.9 (-3.9, 7.9)	7.3 (1.8, 13.1)**	3.2 (-1.6, 8.2)	3.6 (-4.2, 11.9)	2.0 (-4.9, 9.2)

^aAdjusted for maternal education, years in US, maternal pre-pregnancy BMI, and family poverty (during pregnancy or at 9 Y, respectively).

^bAverage of creatinine-corrected concentrations in two urine samples collected during pregnancy.

^cCreatinine-corrected concentrations in one urine sample collected at 9 years of age.

^dP < 0.05 for test of trend across quartiles.