

Supplementary Materials: Effects of Gender on the Association of Urinary Phthalate Metabolites with Thyroid Hormones in Children: A Prospective Cohort Study in Taiwan

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Table S1. Regression coefficients β (95% CI) for log-serum thyroid hormones according to log-urine phthalate metabolite concentrations.

	Crude Analysis			Creatinine-Corrected Analysis		
	All	Boys	Girls	All	Boys	Girls
Free T4						
MEP	0.00001 (−0.0001, 0.0001)	0.00001 (−0.0003, 0.0004)	0.00001 (−0.0001, 0.0002)	−0.00001 (−0.0001, 0.0001)	−0.00001 (−0.0003, 0.0003)	−0.00001 (−0.0001, 0.0001)
MiBP	0.0004 (−0.0001, 0.0009)	−0.0003 (−0.0011, 0.0005)	0.0009 * (0.0003, 0.0016)	0.0004 (−0.0002, 0.0011)	−0.0003 (−0.0015, 0.0009)	0.0008 * (0.0001, 0.0015)
MnBP	0.0003 (−0.00001, 0.0007)	0.0003 (−0.0003, 0.0009)	0.0003 (−0.0001, 0.0008)	0.0004 (−0.0001, 0.0009)	0.0004 (−0.0004, 0.0011)	0.0004 (−0.0003, 0.0011)
ΣDBP	0.0002 (−0.00001, 0.0004)	0.0001 (−0.0003, 0.0004)	0.0003 (0.00001, 0.0006)	0.0003 (−0.0001, 0.0006)	0.0001 (−0.0004, 0.0006)	0.0004 (−0.00001, 0.0008)
MEHP	−0.00001 (−0.0002, 0.0002)	−0.0001 (−0.0002, 0.0001)	0.0018 * (0.0005, 0.0031)	−0.00001 (−0.0004, 0.0003)	−0.0001 (−0.0005, 0.0003)	0.0027 * (0.0006, 0.0048)
MEHHP	0.0001 (−0.0002, 0.0003)	−0.0001 (−0.0005, 0.0002)	0.0010 * (0.0003, 0.0018)	0.0001 (−0.0004, 0.0006)	0.0002 (−0.0008, 0.0004)	0.0015 * (0.0003, 0.0028)
MEOHP	0.0001 (−0.0003, 0.0006)	−0.0002 (−0.0007, 0.0004)	0.0014 ** (0.0004, 0.0025)	0.0002 (−0.0006, 0.0010)	−0.0003 (−0.0012, 0.0007)	0.0025 * (0.0006, 0.0043)
ΣDEHP	0.00001 (−0.0001, 0.0001)	0.00001 (−0.0001, 0.0001)	0.0005 * (0.0001, 0.0008)	0.00001 (−0.0002, 0.0002)	−0.0001 (−0.0002, 0.0001)	0.0008 * (0.0002, 0.0014)

Table S1. Cont.

	Crude Analysis			Creatinine-Corrected Analysis		
	All	Boys	Girls	All	Boys	Girls
Total T4						
MEP	0.00001 (−0.0002, 0.0002)	0.0001 (−0.0004, 0.0007)	−0.00001 (−0.0002, 0.0002)	0.00001 (−0.0001, 0.0001)	0.0001 (−0.0004, 0.0006)	0.00001 (−0.0001, 0.0001)
MiBP	0.0007 (−0.0001, 0.0015)	0.0008 (−0.0005, 0.0020)	0.0007 (−0.0003, 0.0018)	0.0010 * (0.0001, 0.0020)	0.0012 (−0.0006, 0.0030)	0.0011 (−0.00001, 0.0022)
MnBP	0.0003 (−0.0002, 0.0008)	0.0005 (−0.0004, 0.0014)	0.0002 (−0.0004, 0.0009)	0.0005 (−0.0003, 0.0012)	0.0005 (−0.0007, 0.0016)	0.0004 (−0.0006, 0.0015)
ΣDBP	0.0003 (−0.0001, 0.0006)	0.0003 (−0.0002, 0.0009)	0.0002 (−0.0002, 0.0007)	0.0004 (−0.0001, 0.0009)	0.0004 (−0.0003, 0.0012)	0.0005 (−0.0001, 0.0011)
MEHP	0.00001 (−0.0002, 0.0003)	0.00001 (−0.0003, 0.0003)	0.0005 (−0.0016, 0.0026)	0.0001 (−0.0004, 0.0006)	0.00001 (−0.0005, 0.0006)	0.0010 (−0.0023, 0.0043)
MEHHP	0.0001 (−0.0004, 0.0005)	0.0001 (−0.0004, 0.0006)	−0.00001 (−0.0013, 0.0013)	0.0003 (−0.0005, 0.0010)	0.0002 (−0.0006, 0.0011)	0.0001 (−0.0019, 0.0021)
MEOHP	0.0002 (−0.0005, 0.0008)	0.0001 (−0.0006, 0.0009)	0.0001 (−0.0016, 0.0018)	0.0005 (−0.0007, 0.0016)	0.0004 (−0.0009, 0.0017)	0.0003 (−0.0026, 0.0032)
ΣDEHP	0.00001 (−0.0001, 0.0002)	0.00001 (−0.0001, 0.0002)	0.00001 (−0.0005, 0.0006)	0.0001 (−0.0002, 0.0003)	0.0001 (−0.0002, 0.0003)	0.0001 (−0.0008, 0.0011)

Table S1. Cont.

	Crude Analysis			Creatinine-Corrected Analysis		
	All	Boys	Girls	All	Boys	Girls
Free T3						
MEP	0.00001 (−0.0001, 0.0002)	0.0002 (−0.0002, 0.0006)	0.00001 (−0.0002, 0.0002)	0.00001 (−0.0001, 0.0001)	0.0002 (−0.0001, 0.0006)	0.00001 (−0.0001, 0.0001)
MiBP	0.0004 (−0.0003, 0.0011)	0.0008 (−0.00001, 0.0016)	0.0001 (−0.0009, 0.0012)	0.0002 (−0.0006, 0.0010)	0.0011 (−0.0001, 0.0023)	−0.0001 (−0.0013, 0.0010)
MnBP	0.0003 (−0.0002, 0.0007)	0.0006 * (0.00001, 0.0012)	0.0001 (−0.0006, 0.0007)	0.0004 (−0.0002, 0.0011)	0.0009 * (0.0002, 0.0017)	0.00001 (−0.0010, 0.0011)
ΣDBP	0.0002 (−0.0001, 0.0005)	0.0004 * (0.00001, 0.0008)	0.0001 (−0.0004, 0.0005)	0.0002 (−0.0002, 0.0006)	0.0006 * (0.0001, 0.0011)	−0.00001 (−0.0007, 0.0006)
MEHP	0.0001 (−0.0001, 0.0003)	0.0001 (−0.0001, 0.0002)	0.0002 (−0.0019, 0.0024)	0.0001 (−0.0003, 0.0005)	0.0001 (−0.0002, 0.0005)	0.0002 (−0.0030, 0.0035)
MEHHP	0.0002 (−0.0001, 0.0006)	0.0002 (−0.0001, 0.0005)	0.0002 (−0.0011, 0.0014)	0.0004 (−0.0002, 0.0011)	0.0005 (−0.0001, 0.0010)	−0.0001 (−0.0020, 0.0019)
MEOHP	0.0003 (−0.0003, 0.0008)	0.0003 (−0.0002, 0.0008)	0.0002 (−0.0014, 0.0019)	0.0006 (−0.0004, 0.0015)	0.0006 (−0.0002, 0.0015)	0.00001 (−0.0028, 0.0029)
ΣDEHP	0.00001 (−0.0001, 0.0002)	0.00001 (−0.00001, 0.0001)	0.0001 (−0.0005, 0.0006)	0.0001 (−0.0001, 0.0003)	0.0001 (−0.0001, 0.0003)	0.00001 (−0.0009, 0.0009)

Table S1. Cont.

	Crude Analysis			Creatinine-Corrected Analysis		
	All	Boys	Girls	All	Boys	Girls
Total T3						
MEP	0.00001 (−0.0002, 0.0002)	0.0001 (−0.0004, 0.0006)	0.0001 (−0.0002, 0.0002)	0.00001 (−0.0001, 0.0001)	0.0002 (−0.0003, 0.0006)	0.00001 (−0.0001, 0.0001)
MiBP	−0.0002 (−0.0011, 0.0006)	0.0002 (−0.0011, 0.0014)	−0.0006 (−0.0017, 0.0006)	−0.0003 (−0.0014, 0.0007)	−0.00001 (−0.0018, 0.0018)	−0.0006 (−0.0001, 0.0001)
MnBP	−0.0001 (−0.0007, 0.0004)	−0.00001 (−0.0010, 0.0009)	−0.0002 (−0.0009, 0.0005)	−0.0002 (−0.0010, 0.0006)	−0.0001 (−0.0012, 0.0011)	−0.0003 (−0.0015, 0.0009)
ΣDBP	−0.0001 (−0.0005, 0.0003)	0.00001 (−0.0005, 0.0006)	−0.0002 (−0.0007, 0.0003)	−0.0002 (−0.0007, 0.0004)	−0.00001 (−0.0008, 0.0007)	−0.0003 (−0.0010, 0.0004)
MEHP	0.00001 (−0.0002, 0.0003)	0.00001 (−0.0002, 0.0003)	−0.0014 (−0.0038, 0.0011)	0.00001 (−0.0005, 0.0005)	0.0001 (−0.0004, 0.0006)	−0.0022 (−0.0058, 0.0014)
MEHHP	−0.0001 (−0.0005, 0.0004)	0.0001 (−0.0003, 0.0006)	−0.0012 (−0.0026, 0.0002)	−0.0001 (−0.0010, 0.0007)	0.0003 (−0.0006, 0.0011)	−0.0020 (−0.0041, 0.0001)
MEOHP	−0.0001 (−0.0009, 0.0006)	0.0002 (−0.0006, 0.0009)	−0.0014 (−0.0033, 0.0004)	−0.0001 (−0.0014, 0.0011)	0.0004 (−0.0009, 0.0017)	−0.0025 (−0.0056, 0.0005)
ΣDEHP	−0.00001 (−0.0001, 0.0001)	0.00001 (−0.0001, 0.0002)	−0.0005 (−0.0011, 0.0001)	−0.00001 (−0.0003, 0.0003)	0.0001 (−0.0002, 0.0003)	−0.0009 (−0.0019, 0.0001)

Table S1. Cont.

	Crude Analysis			Creatinine-Corrected Analysis		
	All	Boys	Girls	All	Boys	Girls
TSH						
MEP	0.0001 (−0.0004, 0.0006)	−0.0008 (−0.0029, 0.0013)	0.0002 (−0.0003, 0.0007)	0.00001 (−0.0003, 0.0004)	−0.0004 (−0.0022, 0.0014)	0.0001 (−0.0002, 0.0004)
MiBP	0.00001 (−0.0027, 0.0028)	−0.0013 (−0.0060, 0.0034)	0.0011 (−0.0023, 0.0044)	−0.0017 (−0.0053, 0.0019)	−0.0026 (−0.0094, 0.0042)	−0.0010 (−0.0051, 0.0031)
MnBP	0.0016 * (0.0001, 0.0032)	−0.0016 (−0.0053, 0.0021)	0.0027 * (0.0014, 0.0041)	0.0015 (−0.0010, 0.0040)	−0.0021 (−0.0064, 0.0023)	0.0042 * (0.0016, 0.0067)
ΣDBP	0.0008 (−0.0004, 0.0019)	−0.0009 (−0.0031, 0.0013)	0.0017 (0.0006, 0.0029)	0.0002 (−0.0015, 0.0019)	−0.0014 (−0.0043, 0.0015)	0.0013 (−0.0006, 0.0033)
MEHP	0.0003 (−0.0003, 0.0009)	0.0003 (−0.0003, 0.0009)	0.0022 (−0.0044, 0.0088)	0.0007 (−0.0005, 0.0018)	0.0006 (−0.0006, 0.0018)	0.0022 (−0.0085, 0.0130)
MEHHP	0.0006 (−0.0006, 0.0018)	0.0004 (−0.0010, 0.0018)	0.0019 (−0.0020, 0.0057)	0.0010 (−0.0013, 0.0033)	0.0008 (−0.0017, 0.0034)	0.0012 (−0.0055, 0.0079)
MEOHP	0.0011 (−0.0006, 0.0028)	0.0008 (−0.0012, 0.0028)	0.0029 (−0.0019, 0.0078)	0.0019 (−0.0013, 0.0052)	0.0016 (−0.0021, 0.0053)	0.0032 (−0.0063, 0.0128)
ΣDEHP	0.0002 (−0.0001, 0.0005)	0.0001 (−0.0002, 0.0005)	0.0008 (−0.0008, 0.0025)	0.0004 (−0.0003, 0.0010)	0.0003 (−0.0004, 0.0010)	0.0008 (−0.0023, 0.0039)

Abbreviation: ΣDBP: sum of concentrations of all measured DBP metabolites (MiBP, and MnBP); ΣDEHP, sum of concentrations of all measured DEHP metabolites (MEHP, MEHHP, and MEOHP). * $p < 0.05$.

Table S2. Association of thyroid hormones and urine phthalate metabolites in three groups comparison (without creatinine correction).

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
all											
MEP	<20.07	1.37	0.338	8.69	0.860	3.98	0.190	153.47	0.498	2.58	0.767
	20.07–51.41	1.39		8.62		4.15		150.72		2.49	
	>51.41	1.39		8.77		4.10		150.98		2.53	
MiBP	<7.96	1.36	0.113	8.58	0.385	4.07	0.057	156.74	0.188	2.77	0.192
	7.96–23.12	1.38		8.64		3.99		148.14		2.29	
	>23.12	1.40		8.86		4.16		150.22		2.53	
MnBP	<8.45	1.36	0.225	8.55	0.566	4.07	0.172	154.65	0.685	2.44	0.483
	8.45–15.65	1.38		8.82		4.01		151.03		2.59	
	>15.65	1.40		8.72		4.15		149.57		2.57	
ΣDBP	<15.86	1.36	0.126	8.59	0.6238	4.07	0.045 *	156.15	0.368	2.62	0.512
	15.86–52.78	1.38		8.64		4.00		150.01		2.39	
	>52.78	1.41		8.85		4.16		149.04		2.59	
MEHP	<2.09	1.35	0.085	8.42	0.086	3.97	0.177	150.49	0.641	2.75	0.145
	2.09–7.67	1.41		9.00		4.15		155.16		2.28	
	>7.67	1.39		8.67		4.10		149.53		2.58	
MEHHP	<9.71	1.36	0.320	8.63	0.234	4.02	0.010 *	155.54	0.202	2.58	0.635
	9.71–25.58	1.38		8.52		4.01		147.01		2.42	
	>25.58	1.40		8.93		4.19		152.58		2.60	
MEOHP	<6.35	1.36	0.334	8.59	0.432	4.02	0.104	154.20	0.839	2.64	0.742
	6.35–16.77	1.38		8.61		4.07		150.19		2.39	
	>16.77	1.40		8.88		4.14		150.82		2.57	
ΣDEHP	<19.09	1.35	0.131	8.51	0.352	4.04	0.091	154.24	0.651	2.64	0.584
	19.09–47.87	1.39		8.68		4.03		149.74		2.38	
	>47.87	1.40		8.89		4.16		151.22		2.59	

Table S2. Cont.

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
boys											
MEP	<20.07	1.38	0.676	8.49	0.277	3.98	0.212	149.47	0.576	2.99	0.209
	20.07–51.41	1.40		8.80		4.18		148.18		2.41	
	>51.41	1.38		9.05		4.12		152.97		2.53	
MiBP	<7.96	1.37	0.754	8.60	0.427	4.02	0.103	153.46	0.686	3.04	0.162
	7.96–23.12	1.39		8.77		4.06		148.14		2.32	
	>23.12	1.40		9.07		4.22		149.50		2.50	
MnBP	<8.45	1.39	0.992	8.50	0.375	4.02	0.054	150.73	0.876	2.73	0.968
	8.45–15.65	1.38		9.01		3.99		149.15		2.65	
	>15.65	1.39		8.86		4.26		151.49		2.52	
ΣDBP	<15.86	1.38	0.884	8.56	0.511	4.00	0.009 *	151.41	0.772	3.03	0.218
	15.86–52.78	1.39		8.85		4.02		149.22		2.36	
	>52.78	1.39		9.00		4.26		150.78		2.53	
MEHP	<2.09	1.36	0.180	8.22	0.015 *	3.97	0.178	144.37	0.265	3.03	0.233
	2.09–7.67	1.42		9.29		4.14		155.52		2.32	
	>7.67	1.38		8.74		4.14		149.61		2.65	
MEHHP	<9.71	1.38	0.822	8.62	0.125	4.04	0.004 *	153.22	0.071	2.84	0.867
	9.71–25.58	1.38		8.59		3.95		144.25		2.55	
	>25.58	1.40		9.18		4.28		154.97		2.56	
MEOHP	<6.35	1.38	0.801	8.60	0.521	4.03	0.218	152.38	0.767	2.87	0.773
	6.35–16.77	1.39		8.81		4.04		147.67		2.58	
	>16.77	1.39		8.97		4.21		151.67		2.49	
ΣDEHP	<19.09	1.36	0.454	8.39	0.251	4.03	0.076	150.28	0.629	2.97	0.593
	19.09–47.87	1.40		8.87		4.01		148.54		2.51	
	>47.87	1.39		9.04		4.25		152.87		2.53	

Table S2. Cont.

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
girls											
MEP	<20.07	1.36	0.530	8.83	0.307	3.98	0.590	156.46	0.164	2.27	0.610
	20.07–51.41	1.38		8.46		4.12		153.02		2.56	
	>51.41	1.39		8.42		4.09		148.50		2.53	
MiBP	<7.96	1.34	0.107	8.56	0.751	4.13	0.332	160.13	0.186	2.50	0.718
	7.96–23.12	1.37		8.51		3.92		148.15		2.27	
	>23.12	1.41		8.68		4.11		150.83		2.56	
MnBP	<8.45	1.34	0.081	8.59	0.862	4.10	0.948	157.48	0.229	2.23	0.343
	8.45–15.65	1.38		8.61		4.02		153.09		2.52	
	>15.65	1.41		8.57		4.04		147.54		2.63	
ΣDBP	<15.86	1.34	0.055 *	8.61	0.769	4.12	0.835	160.19	0.087	2.27	0.451
	15.86–52.78	1.36		8.42		3.98		150.90		2.43	
	>52.78	1.42		8.71		4.06		147.45		2.64	
MEHP	<2.09	1.34	0.261	8.56	0.998	3.98	0.780	154.64	0.393	2.56	0.375
	2.09–7.67	1.40		8.64		4.15		154.71		2.24	
	>7.67	1.39		8.58		4.07		149.45		2.50	
MEHHP	<9.71	1.35	0.372	8.63	0.862	4.01	0.258	157.00	0.610	2.41	0.509
	9.71–25.58	1.39		8.44		4.09		150.60		2.25	
	>25.58	1.40		8.66		4.09		150.11		2.65	
MEOHP	<6.35	1.35	0.339	8.58	0.691	4.01	0.278	155.51	0.698	2.47	0.396
	6.35–16.77	1.37		8.39		4.10		153.06		2.18	
	>16.77	1.41		8.77		4.08		149.95		2.67	
ΣDEHP	<19.09	1.34	0.196	8.58	0.730	4.04	0.615	156.57	0.500	2.44	0.450
	19.09–47.87	1.37		8.38		4.05		151.63		2.18	
	>47.87	1.41		8.74		4.08		149.71		2.64	

Abbreviation: ΣDBP: sum of concentrations of all measured DBP metabolites (MiBP, and MnBP); ΣDEHP, sum of concentrations of all measured DEHP metabolites (MEHP, MEHHP, and MEOHP). * $p < 0.05$.

Table S3. Association of thyroid hormones and urine phthalate metabolites in three groups comparison (the correction of creatinine).

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
all											
			0.549		0.248		0.440		0.572		0.060
MEP	<23.07	1.38		8.58		4.01		151.29		2.70	
	23.07–50.55	1.38		8.58		4.12		150.50		2.34	
	>50.55	1.39		8.92		4.10		153.30		2.57	
			0.167		0.424		0.366		0.347		0.744
MiBP	<9.49	1.37		8.65		4.07		156.52		2.71	
	9.49–24.19	1.37		8.57		4.05		149.26		2.40	
	>24.19	1.40		8.87		4.11		149.49		2.49	
			0.079		0.364		0.047 *		0.153		0.507
MnBP	<9.52	1.36		8.62		4.10		156.50		2.56	
	9.52–26.47	1.38		8.56		3.95		146.84		2.41	
	>26.47	1.41		8.90		4.17		151.68		2.63	
			0.134		0.457		0.487		0.591		0.975
ΣDBP	<23.24	1.36		8.51		4.09		155.54		2.62	
	23.24–52.28	1.39		8.75		4.03		149.98		2.47	
	>52.28	1.40		8.82		4.11		149.74		2.52	
			0.0880		0.3002		0.3272		0.7072		0.0546
MEHP	<2.74	1.36		8.55		4.01		151.07		2.78	
	2.74–6.42	1.40		8.91		4.09		154.37		2.30	
	>6.42	1.38		8.63		4.13		149.82		2.53	
			0.032 *		0.043 *		0.017 *		0.857		0.677
MEHHP	<13.04	1.35		8.42		3.98		152.34		2.60	
	13.04–25.93	1.40		8.94		4.08		151.91		2.45	
	>25.93	1.39		8.74		4.17		150.93		2.55	
			0.100		0.076		0.118		0.887		0.602
MEOHP	<9.15	1.35		8.43		4.02		153.75		2.69	
	9.15–17.95	1.39		8.94		4.06		150.51		2.47	
	>17.95	1.40		8.72		4.15		150.90		2.44	
			0.010 *		0.010 *		0.016 *		0.779		0.864
ΣDEHP	<25.34	1.35		8.36		3.97		151.62		2.65	
	25.34–49.92	1.41		8.98		4.11		152.34		2.50	
	>49.92	1.38		8.75		4.15		151.21		2.45	

Table S3. Cont.

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
boys											
MEP			0.781		0.113		0.2876		0.0876		0.1576
	<23.07	1.40		8.53		4.00		146.99		2.92	
	23.07–50.55	1.37		8.67		4.13		146.78		2.39	
	>50.55	1.39		9.21		4.16		157.06		2.52	
MiBP			0.944		0.471		0.192		0.982		0.353
	<9.49	1.38		8.58		3.98		151.79		2.96	
	9.49–24.19	1.40		8.87		4.18		150.36		2.33	
	>24.19	1.38		9.03		4.15		148.80		2.55	
MnBP			0.735		0.270		0.021		0.158		0.762
	<9.52	1.38		8.62		4.03		152.36		2.79	
	9.52–26.47	1.37		8.65		3.96		143.43		2.65	
	>26.47	1.40		9.12		4.27		154.03		2.45	
ΣDBP			0.890		0.229		0.145		0.773		0.716
	<23.24	1.38		8.50		3.99		150.23		2.85	
	23.24–52.28	1.40		9.05		4.13		152.76		2.56	
	>52.28	1.39		8.95		4.20		148.43		2.42	
MEHP			0.058		0.088		0.485		0.712		0.471
	<2.74	1.37		8.49		4.03		147.54		2.93	
	2.74–6.42	1.43		9.24		4.07		153.57		2.41	
	>6.42	1.36		8.70		4.17		150.13		2.57	
MEHHP			0.461		0.109		0.007 *		0.189		0.825
	<13.04	1.37		8.39		3.90		145.66		2.85	
	13.04–25.93	1.40		9.02		4.10		152.47		2.56	
	>25.93	1.39		8.98		4.28		152.83		2.49	
MEOHP			0.992		0.456		0.114		0.772		0.212
	<9.15	1.39		8.57		3.98		149.23		2.98	
	9.15–17.95	1.38		8.93		4.07		149.92		2.43	
	>17.95	1.39		8.91		4.24		152.18		2.49	
ΣDEHP			0.193		0.098		0.021 *		0.274		0.588
	<25.34	1.37		8.38		3.90		146.20		2.93	
	25.34–49.92	1.42		9.08		4.13		151.74		2.55	
	>49.92	1.37		8.91		4.23		152.87		2.44	

Table S3. Cont.

	Concentrations (µg/L)	Free T4 (ng/dL)	<i>p</i>	Total T4 (µg/dL)	<i>p</i>	Free T3 (ng/dL)	<i>p</i>	Total T3 (µg/dL)	<i>p</i>	TSH (miu/mL)	<i>p</i>
girls											
MEP			0.296		0.919		0.585		0.377		0.335
	<23.07	1.35		8.63		4.01		156.51		2.44	
	23.07–50.55	1.38		8.52		4.11		153.19		2.30	
	>50.55	1.39		8.63		4.04		149.65		2.61	
MiBP			0.024 *		0.325		0.379		0.098		0.636
	<9.49	1.35		8.73		4.19		162.26		2.41	
	9.49–24.19	1.34		8.28		3.92		148.20		2.47	
	>24.19	1.42		8.75		4.08		150.00		2.45	
MnBP			0.022 *		0.888		0.687		0.118		0.100
	<9.52	1.33		8.61		4.18		161.06		2.30	
	9.52–26.47	1.38		8.50		3.95		149.37		2.24	
	>26.47	1.41		8.67		4.07		149.25		2.81	
ΣDBP			0.037 *		0.766		0.646		0.097		0.708
	<23.24	1.33		8.52		4.22		162.42		2.32	
	23.24–52.28	1.38		8.51		3.95		147.69		2.38	
	>52.28	1.41		8.72		4.04		150.80		2.60	
MEHP			0.163		0.988		0.521		0.524		0.060
	<2.74	1.35		8.60		3.99		154.18		2.65	
	2.74–6.42	1.38		8.60		4.10		155.11		2.20	
	>6.42	1.40		8.57		4.10		149.50		2.48	
MEH HP			0.056		0.371		0.662		0.399		0.351
	<13.04	1.34		8.45		4.04		158.05		2.39	
	13.04–25.93	1.41		8.83		4.05		151.24		2.32	
	>25.93	1.39		8.53		4.08		149.35		2.60	
MEO HP			0.019 *		0.192		0.660		0.355		0.921
	<9.15	1.32		8.29		4.05		157.86		2.43	
	9.15–17.95	1.40		8.95		4.06		151.13		2.51	
	>17.95	1.41		8.56		4.07		149.77		2.40	
ΣDEHP P			0.019 *		0.185		0.461		0.619		0.837
	<25.34	1.33		8.34		4.02		156.09		2.42	
	25.34–49.92	1.41		8.87		4.08		152.99		2.45	
	>49.92	1.40		8.60		4.08		149.66		2.47	

Abbreviation: ΣDBP: sum of concentrations of all measured DBP metabolites (MiBP, and MnBP); ΣDEHP, sum of concentrations of all measured DEHP metabolites (MEHP, MEHP, and MEOHP); * $p < 0.05$.

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