

Supplementary Table SIII Associations of individual early pregnancy phthalate urine concentrations with placental angiogenic markers.

	Placental growth factor (PIGF) <18 weeks (pg/ml), β (95% CI) (n = 1143)	Soluble fms-like tyrosine kinase (sFlt) –1 <18 weeks (ng/ml), β (95% CI) (n = 1143)	sFlt-1: PIGF ratio <18 weeks, β (95% CI) (n = 1143)	Placental growth factor (PIGF) 18–25 weeks (pg/ml), β (95% CI) (n = 1173)	Soluble fms-like tyrosine kinase (sFlt)–1 18–25 weeks (ng/ml), β (95% CI) (n = 1173)	sFlt-1: PIGF ratio 18–25 weeks, β (95% CI) (n = 1173)
<i>LMW phthalate metabolites</i>						
mMP metabolites	0.00 (–0.03, 0.06)	0.04 (–0.09, 0.31)	18.33 (–55.72, 187.59)	–0.05 (–0.12, 0.28)	0.02 (–0.11, 0.65)	9.75 (–11.64, 139.11)
mEP metabolites	0.01 (–0.02, 0.05)	0.07 (–0.03, 0.25)	24.39 (–26.76, 137.35)	0.15 (0.01, 0.52)*	0.16 (–0.00, 0.74)	–0.80 (–10.53, 72.71)
mIBP metabolites	0.02 (0.01, 0.08)	0.06 (–0.06, 0.31)	–0.02 (–61.08, 143.62)	0.16 (–0.00, 0.65)	0.18 (–0.02, 0.95)	–0.06 (–14.04, 103.14)
mBP metabolites	–0.03 (–0.05, 0.01)	0.13 (–0.02, 0.40)	109.93 (12.26, 307.42)*	0.06 (–0.06, 0.46)	0.11 (–0.06, 0.78)	4.78 (–12.10, 114.88)
<i>HMW phthalate metabolites</i>						
mECPP metabolites	–0.03 (–0.06, 0.02)	0.14 (–0.02, 0.44)	118.28 (10.24, 338.48)*	0.04 (–0.08, 0.47)	0.08 (–0.09, 0.80)	4.40 (–14.28, 129.49)
mEHHP metabolites	–0.03 (–0.06, 0.01)	0.09 (–0.05, 0.36)	97.48 (1.65, 294.51)*	0.02 (–0.08, 0.40)	0.08 (–0.08, 0.75)	7.40 (–11.98, 128.43)
mEOHP metabolites	–0.03 (–0.05, 0.02)	0.12 (–0.02, 0.40)	105.12 (7.80, 302.98)*	0.04 (–0.07, 0.42)	0.11 (–0.06, 0.80)	8.16 (–11.18, 126.44)
mCMHP metabolites	–0.06 (–0.08, –0.02)*	0.24 (0.04, 0.62)*†	216.96 (70.25, 500.36)*†	0.00 (–0.11, 0.44)	0.15 (–0.06, 1.03)	19.71 (–10.11, 182.53)
mCPP metabolites	–0.01 (–0.04, 0.05)	0.13 (–0.04, 0.46)	82.83 (–19.72, 300.46)	0.04 (–0.09, 0.49)	0.10 (–0.08, 0.89)	6.49 (–14.24, 141.22)
mBzP metabolites	0.01 (–0.02, 0.06)	0.17 (0.03, 0.42)*†	69.03 (–3.06, 217.28)	0.12 (–0.01, 0.49)	0.22 (0.02, 0.92)*	12.57 (–6.23, 113.49)
mHxP metabolites	0.01 (–0.02, 0.06)	0.03 (–0.08, 0.25)	–0.38 (–54.90, 127.80)	0.06 (–0.05, 0.42)	0.04 (–0.08, 0.58)	–2.91 (–13.36, 82.73)
mHpP metabolites	0.01 (–0.02, 0.07)	0.08 (–0.06, 0.35)	28.30 (–47.90, 199.26)	–0.12 (–0.15, 0.13)	0.11 (–0.07, 0.86)	33.65 (–3.40, 207.80)

Values are regression coefficients (95% CI) from multivariable linear regression models that reflect the difference in placental angiogenic markers per log unit increase in urinary phthalate metabolite concentrations.

Models are adjusted for maternal age, maternal pre-pregnancy BMI, parity, ethnicity, education, maternal smoking, maternal alcohol, folic acid supplementation, gestational age at time of measurement and creatinine. *P-value<0.05.

†Significant with Bonferroni correction.