Online Supplemental Materials

Supplemental Table 1 Associations between IOM 2009 GWG categories and mid-childhood cardiometabolic risk biomarkers[a,b]

	Gestational weight gain	Mean difference (95% CI) in offspring cardiometabolic risk biomarkers		
		Model 1	**Model 2**	**Model 3**
HOMA-IR	Inadequate	0.00 (-0.20, 0.20)	0.01 (-0.19, 0.21)	0.09 (-0.11, 0.28)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	-0.01 (-0.14, 0.13)	0.01 (-0.14, 0.15)	0.02 (-0.12, 0.16)
Triglycerides (mg/dL)	Inadequate	0.00 (-0.11, 0.10)	0.00 (-0.10, 0.11)	0.03 (-0.07, 0.14)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	0.02 (-0.05, 0.10)	0.02 (-0.05, 0.10)	0.04 (-0.04, 0.11)
Leptin (ng/mL)	Inadequate	-0.16 (-0.38, 0.05)	-0.17 (-0.38, 0.04)	-0.08 (-0.28, 0.12)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	0.03 (-0.12, 0.17)	0.03 (-0.12, 0.17)	0.00 (-0.13, 0.14)
Adiponectin (µg/mL)	Inadequate	-0.02 (-0.18, 0.14)	-0.03 (-0.19, 0.13)	-0.10 (-0.26, 0.07)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	0.01 (-0.09, 0.12)	0.01 (-0.10, 0.11)	-0.04 (-0.15, 0.07)
hsCRP (mg/L)	Inadequate	-0.28 (-0.71, 0.15)	-0.28 (-0.71, 0.15)	-0.05 (-0.47, 0.36)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	-0.17 (-0.46, 0.13)	-0.14 (-0.44, 0.16)	-0.16 (-0.45, 0.13)
IL-6 (pg/mL)	Inadequate	0.01 (-0.21, 0.23)	0.01 (-0.21, 0.23)	0.11 (-0.11, 0.34)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	0.08 (-0.07, 0.23)	0.10 (-0.05, 0.25)	0.10 (-0.05, 0.26)
SBP (mmHg)[c]	Inadequate	-0.04 (-1.71, 1.63)	-0.05 (-0.72, 1.62)	0.67 (-1.11, 2.46)
	Adequate	0.00 (Reference)	0.00 (Reference)	0.00 (Reference)
	Excessive	0.39 (-0.73, 1.52)	0.08 (-1.05, 1.21)	0.07 (-1.14, 1.28)

Model 1: Adjusted for maternal pre-pregnancy BMI, and child's sex and age at examination.

Model 2: Model 1 + maternal race/ethnicity, parity, and smoking habits during pregnancy, father's BMI, and annual household income.

Model 3: Model 2 + DXA total fat mass index. Estimates for SBP are additional adjusted for height z-score.

a Estimates are derived from imputed data.
b All biomarkers are natural log transformed except for SBP.
c All models for SBP are additionally adjusted for height z-score.