

SUPPLEMENTARY DATA

**Supplementary Table 1.** Crude and adjusted\* regression coefficients (95% confidence intervals) for the association of maternal glucose tolerance with fat free mass (DXA Total Fat Free Mass and DXA Fat Free Mass Index) in 760 children and their mothers in Project Viva.

Outcome	Gestational Glucose Tolerance	Model 1			Model 2			Model 3			Model 4		
		$\beta$	95% CI	<i>P</i>									
Dxa Total Fat Free Mass	GDM	1.00	(-0.31; 2.31)	0.14	0.06	(-1.21; 1.32)	0.93	0.24	(-1.01; 1.50)	0.70	0.44	(-0.80; 1.68)	0.49
	IGI	0.86	(-0.50; 2.23)	0.22	0.54	(-0.76; 1.84)	0.42	0.44	(-0.84; 1.72)	0.50	0.40	(-0.85; 1.66)	0.53
	IH	0.15	(-0.69; 0.99)	0.72	0.02	(-0.79; 0.82)	0.97	-0.02	(-0.82; 0.77)	0.96	0.18	(-0.61; 0.96)	0.65
	Norm	0.0 (ref)											
Dxa Total Fat Free Mass Index (kg/m <sup>2</sup> )	GDM	0.12	(-0.36; 0.61)	0.62	-0.24	(-0.71; 0.22)	0.31	-0.16	(-0.62; 0.29)	0.48	-0.06	(-0.52; 0.39)	0.78
	IGI	0.07	(-0.43; 0.58)	0.78	-0.05	(-0.53; 0.42)	0.82	-0.10	(-0.57; 0.37)	0.68	-0.11	(-0.57; 0.35)	0.65
	IH	0.09	(-0.22; 0.40)	0.58	0.03	(-0.26; 0.33)	0.82	0.02	(-0.27; 0.31)	0.91	0.10	(-0.19; 0.39)	0.49
	Norm	0.0 (ref)											

**Model 1:** adjusted for child age at examination and sex

**Model 2:** model 1 + maternal pre-pregnancy BMI

**Model 3:** model 2 + maternal gestational weight gain and paternal BMI

**Model 4:** model 3 + maternal race/ethnicity, age at enrollment, education, parity and maternal smoking during pregnancy, household income, marital status

Norm: Normoglycemic, IH: Isolated Hyperglycemia, IGI: Intermediate Glucose Intolerance, GDM: Gestational Diabetes Mellitus.