

SUPPLEMENTARY DATA

Supplementary Table 1. Univariate associations of 25OHD

	All Mothers			No previous GDM or nulliparous		
	Effect*	95% confidence Interval	p-value	Effect*	95% confidence Interval	p-value
GTT 2 hour glucose (mmol/l)	-0.998	(-1.609, -0.387)	p=0.002	-1.126	(-1.868, -0.383)	p=0.004
GTT fasting glucose (mmol/l)	-0.825	(-1.435, -0.215)	p=0.009	-0.706	(-1.270, -0.142)	p=0.015
HbA1c (%)	-0.514	(-0.831, -0.198)	p=0.002	-0.416	(-0.738, -0.095)	p=0.012
Cholesterol (mmol/l)	0.164	(-0.005, 0.334)	p=0.057	0.163	(-0.011, 0.337)	p=0.065
Triglycerides (mmol/l)	0.007	(-0.105, 0.120)	p=0.897	0.029	(-0.088, 0.146)	p=0.626
HDL-cholesterol (mmol/l)	0.110	(0.035, 0.186)	p=0.004	0.110	(0.032, 0.189)	p=0.006
SBP (mmHg)	2.319	(-1.081, 5.719)	p=0.180	2.940	(-0.681, 6.561)	p=0.111
DBP (mmHg)	1.269	(-0.598, 3.136)	p=0.182	1.265	(-0.728, 3.257)	p=0.212

*Effect size refers to increase in variables per 1 unit increase in the natural logarithm of 25OHD, measured in ng/ml.

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Supplementary Table 2. Multivariate associations of vitamin D adjusted for sampling month, age, BMI, smoking, ethnicity, family history of diabetes.

	All Mothers			No previous GDM or nulliparous		
	Effect*	95% confidence Interval	p-value	Effect*	95% confidence Interval	p-value
GTT 2 hour glucose (mmol/l)	-0.738	(-1.467, -0.008)	p=0.048	-0.986	(-2.004, 0.031)	p=0.057
GTT fasting glucose (mmol/l)	-0.413	(-1.089, 0.264)	p=0.228	-0.547	(-1.334, 0.240)	p=0.169
HbA1c (%)	-0.209	(-0.559, 0.142)	p=0.238	-0.190	(-0.579, 0.200)	p=0.331
Cholesterol (mmol/l)	0.164	(-0.024, 0.352)	p=0.088	0.171	(-0.028, 0.369)	p=0.091
Triglycerides (mmol/l)	0.018	(-0.107, 0.142)	p=0.778	0.052	(-0.082, 0.185)	p=0.446
HDL-cholesterol (mmol/l)	0.090	(0.005, 0.175)	p=0.037	0.095	(0.005, 0.185)	p=0.039
SBP (mmHg)	1.239	(-2.607, 5.086)	p=0.526	1.282	(-2.974, 5.539)	p=0.553
DBP (mmHg)	1.652	(-0.491, 3.795)	p=0.130	1.722	(-0.658, 4.102)	p=0.155

*Effect size refers to increase in variables per 1 unit increase in the natural logarithm of 25OHD, measured in ng/ml.