

SUPPLEMENTARY DATA

Supplementary Table S1. Relationship between candidate lipid biomarkers and post-load glucose levels within the Discovery Cohort. P-values in bold type indicate a statistically significant result ($P < 0.05$).

Lipid Species	VIP	Univariate Analysis		Adjusted for Maternal age and BMI	
		Regression coefficient (mM per SD)	p-value	Regression coefficient (mM per SD)	p-value
PCae(40:3)	2.41	-0.42	1.84E-04	-0.41	9.73E-04
PCae(40:4)	2.36	-0.41	2.52E-04	-0.39	0.001
TG(51:1)	2.12	0.37	0.001	0.40	8.88E-04
PCae(38:4)	2.05	-0.36	0.002	-0.29	0.018
PCae(40:5)	1.98	-0.34	0.002	-0.28	0.026
TG(50:1)	1.91	0.33	0.003	0.28	0.022
PCae(44:4)	1.90	-0.33	0.003	-0.37	0.002
TG(48:1)	1.89	0.33	0.004	0.32	0.008
TG(50:2)	1.80	0.31	0.006	0.21	0.090
PCae(44:6)	1.80	-0.31	0.006	-0.29	0.016
PCae(40:7)	1.72	-0.30	0.008	-0.23	0.053
PC(32:1)	1.65	0.29	0.011	0.20	0.094
PE(34:1)	1.58	0.27	0.015	0.17	0.171

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Supplementary Table S2. Relationship between candidate lipid biomarkers and membership in the top tertile of post-load glucose levels within the Discovery Cohort. P-values in bold type indicate a statistically significant result ($P < 0.05$).

Lipid Species	VIP	Univariate Analysis		Adjusted for Maternal age and BMI	
		Odds ratio per SD	p-value	Odds ratio per SD	p-value
PCae(40:3)	1.78	0.64	0.019	0.69	0.092
PCae(40:4)	1.91	0.65	0.013	0.65	0.030
TG(51:1)	2.16	1.56	0.006	1.64	0.006
PCae(38:4)	1.80	0.67	0.018	0.70	0.059
PCae(40:5)	2.18	0.62	0.005	0.68	0.048
TG(50:1)	1.93	1.48	0.013	1.31	0.119
PCae(44:4)	1.56	0.69	0.040	0.64	0.037
TG(48:1)	1.91	1.47	0.014	1.40	0.054
TG(50:2)	2.14	1.57	0.006	1.30	0.144
PCae(44:6)	2.01	0.61	0.009	0.60	0.022
PCae(40:7)	1.91	0.61	0.013	0.73	0.134
PC(32:1)	2.01	1.50	0.011	1.41	0.046
PE(34:1)	2.18	1.55	0.005	1.28	0.154