Supplementary Table 1. Characteristics of mothers and offspring of Thai, Afro-Caribbean and Mexican-American ancestry with maternal FPG value, genetic data and offspring birth weight in HAPO.

	Thai	Afro-Caribbean	Mexican- American
Total mothers, n	1168	1072	602
Age in years, mean (SD)	27.7 (5.5)	25.6 (5.6)	28.8 (5.6)
Primiparous, n (%)	630 (54.1%)	492 (45.9%)	160 (26.6%)
Pre-pregnancy BMI, mean	21.8 (3.5)	24.2 (5.6)	26.8 (5.6)
(SD)			
Smoker, n (%)	8 (0.007%)	5 (0.005%)	0 (0.0%)
Total offspring, n	1168	1072	602
Gestational age at delivery	39 (1)	40 (1)	40 (1)
in weeks, mean (SD)			
Female offspring, n (%)	599 (51.3%)	518 (48.3%)	309 (51.3%)
Offspring birth weight	3092 (364)	3223 (427)	3436 (400)
corrected for sex and			
gestational age in grams,			
mean (SD)			
Corrected birth weight	3645	3730	3960
cut-off for LGA (≥90 th			
centile) in grams			

BMI, body mass index; FPG, fasting plasma glucose; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; LGA, large for gestational age, SD, standard deviation

Supplementary Table 2. Pairwise correlations of effect allele frequencies of 59 SNPs in the HAPO study samples

	Eur	Thai	Afro-Carib	Mex-Amer
Eur	1.0000	-	-	-
Thai	0.8155	1.0000	-	-
Afro-Carib	0.7610	0.8009	1.0000	-
Mex-Amer	0.9263	0.8869	0.8218	1.0000

Supplementary Table 3. SNPs shown to be associated with birth weight (Horikoshi et al. 2016, *Nature* 538:248-252) and included in the fetal genetic score for birth weight. Beta values were aligned to the birth weight-raising allele on the + strand.

SNP	Gene	Alleles (Effect/Other)	Beta
rs2473248	WNT4-ZBTB40	С/Т	0.033
rs3753639	ZBTB7B	С/Т	0.031
rs72480273	FCGR2B	C/A	0.031
rs61830764	near DTL	A/G	0.022
rs7575873	ATAD2B	A/G	0.038
rs1374204	EPAS1	T/C	0.047
rs2242116	PTH1R	A/G	0.022
rs11719201	ADCY5	T/C	0.046
rs10935733	СРАЗ	T/C	0.022
rs13322435	CCNL1	A/G	0.053
rs925098	LCORL	G/A	0.034
rs6537307	HHIP	G/A	0.025
rs854037	5q11.2	A/G	0.027
rs7729301	EBF1	A/G	0.024
rs35261542	CDKALI	C/A	0.044
rs9379832	HIST1H2BE	A/G	0.023
rs7742369	HMGA1	G/A	0.028
rs1415701	L3MBTL3	G/A	0.025
rs1101081	ESR1	С/Т	0.038
rs798489	GNA12	С/Т	0.023
rs11765649	IGF2BP3	T/C	0.027
rs6959887	TBX20	A/G	0.023
rs138715366	YKT6-GCK	C/T	0.241
rs62466330	BCL7B	C/T	0.049
rs13266210	ANK1-NKX6-3	A/G	0.031
rs6989280	TRIB1	G/A	0.022
rs12543725	SLC45A4	G/A	0.023
rs28510415	PTCH1	G/A	0.056
rs2150052	LPAR1	T/A	0.021
rs7847628	PHF19	G/A	0.023
rs700059	STRBP	G/A	0.033
rs61862780	HHEX-IDE	T/C	0.028
rs74233809	NT5C2	C/T	0.037
rs7076938	ADRB1	T/C	0.036
rs2421016	PLEKHA1	T/C	0.021
rs72851023	INS-IGF2	T/C	0.048
rs10830963	MTNR1B	G/C	0.023
rs11055034	APOLD1	C/A	0.022
rs139975827	ABCC9	G/A	0.025

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rs12823128	ITPR2	T/C	0.021
rs1351394	HMGA2	T/C	0.044
rs7964361	IGF1	A/G	0.039
rs2324499	LINC00332	G/C	0.022
rs2854355	RB1	G/A	0.023
rs1819436	RNF219-AS1	C/T	0.033
rs12906125	FES	G/A	0.023
rs7402982	IGF1R	A/G	0.023
rs1011939	GPR139	G/A	0.022
rs113086489	CLDN7	T/C	0.031
rs144843919	SUZ12P1-CRLF3	G/A	0.066
rs12942207	SP6-SP2	C/T	0.022
rs61154119	ACTL9/LOC105372267	T/G	0.028
rs10402712	PEPD	A/G	0.022
rs6040076	JAG1	C/G	0.023
rs28530618	C20orf203	A/G	0.026
rs6016377	MAFB	T/C	0.024
rs2229742	NRIP1	G/C	0.036
rs134594	KREMEN1	C/T	0.023
rs62240962	SREBF2	C/T	0.047
rs11096402	PLAC1	G/A	0.028

Supplementary Table 4. Associations between maternal FPG, fetal genetic score for birth weight and corrected birth weight for participants of European ancestry in EFSOCH and HAPO. Range of maternal FPG for each tertile; lowest 3.2-4.3 mmol/L, middle 4.4-4.6 mmol/L, highest 4.6-6.7 mmol/L.

European ancestry (n=2,051)	Beta coefficient (β)	95% CI	P value	Adjusted R ²
Corrected birth weight and maternal	301 grams per mmol/L	250-353 grams per mmol/L	$5.0 \times 10^{-31*}$	0.07
FPG as continuous measure		1		
Corrected birth weight and maternal FPG as ascending tertiles	112 grams per one FPG tertile higher	88-135 grams per one FPG tertile higher	1.8x10 ^{-10*}	0.04
Corrected birth weight and fetal GS as continuous measure	18 grams per one fetal GS unit	13-23 grams per one fetal GS unit	6.3x10 ^{-14*}	0.03
Corrected birth weight and fetal GS as ascending tertiles	87 grams per one fetal GS tertile higher	63-111 grams per one fetal GS tertile higher	9.5x10 ^{-13*}	0.02
Maternal FPG and fetal GS as continuous measures	0.002 mmol/L per one fetal GS unit	-0.002-0.007 mmol/L per one fetal GS unit	0.25	-0.001

Supplementary Table 5. Associations between maternal FPG, fetal genetic score for birth weight and corrected birth weight for participants of Thai ancestry in HAPO. Range of maternal FPG for each tertile; lowest 3.2-4.3 mmol/L, middle 4.3-4.6 mmol/L, highest 4.7-5.7 mmol/L.

Thei encostry	Beta coefficient	95% CI	<i>P</i> value	Adjusted R ²
Thai ancestry		93% CI	P value	Adjusted R
(n=1,168)	(β)		00*	
Corrected birth weight	191 grams per	128-253 grams	$2.3 \times 10^{-09*}$	0.03
and maternal FPG as	mmol/L	per mmol/L		
continuous measure		-		
Corrected birth weight	84 grams per one	58-111 grams	$5.3 \times 10^{-10*}$	0.03
and maternal FPG as	FPG tertile	per one FPG		
ascending tertiles	higher	tertile higher		
Corrected birth weight	14 grams per one	8-20 grams per	$5.7 \times 10^{-06*}$	0.02
and fetal GS as	fetal GS unit	one fetal GS		
continuous measure		unit		
Corrected birth weight	53 grams per one	27-80 grams	8.8x10 ^{-05*}	0.01
and fetal GS as	fetal GS tertile	per one fetal		
ascending tertiles	higher	GS tertile		
e	C	higher		
Maternal FPG and	-0.001 mmol/L	-0.007-0.004	0.60	-6.0×10^{-04}
fetal GS as continuous	per one fetal GS	mmol/L per		
measures	unit	one fetal GS		
		unit		
0.01				

*P<0.001

Supplementary Table 6. Associations between maternal FPG, fetal genetic score for birth weight and corrected birth weight for participants of Afro-Caribbean ancestry in HAPO. Range of maternal FPG for each tertile; lowest 3.4-4.3 mmol/L, middle 4.4-4.6 mmol/L, highest 4.7-5.9 mmol/L.

Afro-Caribbean	Beta coefficient	95% CI	<i>P</i> value	Adjusted R ²
ancestry (n=1,072) Corrected birth weight and maternal FPG as	(β) 166 grams per mmol/L	97-235 grams per mmol/L	2.7x10 ^{-06*}	0.02
continuous measure		-	1 4 1 0-06*	
Corrected birth weight and maternal FPG as ascending tertiles	77 grams per one FPG tertile higher	46-108 grams per one FPG tertile higher	1.4x10 ^{-06*}	0.02
Corrected birth weight and fetal GS as continuous measure	10 grams per one fetal GS unit	3-17 grams per one fetal GS unit	0.006†	0.006
Corrected birth weight and fetal GS as ascending tertiles	34 grams per one fetal GS tertile higher	2-66 grams per one fetal GS tertile higher	0.04†	0.003
Maternal FPG and fetal GS as continuous measures	-0.002 mmol/L per one fetal GS unit	-0.005-0.01 mmol/L per one fetal GS unit	0.33	-6.2x10 ⁻⁰⁵

*P<0.001 †P<0.05

Supplementary Table 7. Associations between maternal FPG, fetal genetic score for birth weight and corrected birth weight for participants of Mexican-American ancestry in HAPO. Range of maternal FPG for each tertile; lowest 3.8-4.4 mmol/L, middle 4.5-4.8 mmol/L, highest 4.9-5.9 mmol/L.

Mexican-American	Beta coefficient	95% CI	<i>P</i> value	Adjusted R ²
ancestry (n=602)	(β)			
Corrected birth weight	168 grams per	85-251 grams	7.6x10 ^{-05*}	0.02
and maternal FPG as	mmol/L	per mmol/L		
continuous measure				
Corrected birth weight	92 grams per one	52-132 grams	8.4x10 ^{-06*}	0.03
and maternal FPG as	FPG tertile	per one FPG		
ascending tertiles	higher	tertile higher		
Corrected birth weight	10 grams per one	2-18 grams per	0.02†	0.007
and fetal GS as	fetal GS unit	one fetal GS		
continuous measure		unit		
Corrected birth weight	69 grams per one	29-109 grams	8.4x10 ^{-04*}	0.02
and fetal GS as	fetal GS tertile	per one fetal		
ascending tertiles	higher	GS tertile		
		higher		
Maternal FPG and	-0.004 mmol/L	-0.01-0.004	0.30	1.5×10^{-04}
fetal GS as continuous	per one fetal GS	mmol/L per		
measures	unit	one fetal GS		
		unit		

**P*<0.001 †*P*<0.05

Supplementary Table 8. Mean and SEM for birth weight corrected for sex and gestational age in grams, in combined maternal FPG and fetal genetic score for birth weight tertiles in participants of European ancestry in EFSOCH and HAPO. Mean birth weight for all subjects of European ancestry was $3,448 \pm 10$ g.

European ancestry	Fetal GS tertiles			
Maternal FPG tertiles	Lowest (n=679)	Middle (n=690)	Highest (n=682)	P value for linear trend across fetal GS tertiles
Lowest (n=696) Range FPG=3.2- 4.3 mmol/L	3348 (29)	3345 (28)	3462 (28)	0.004*
Middle (n=645) Range FPG=4.3- 4.6 mmol/L	3413 (30)	3495 (28)	3567 (32)	<0.001 [†]
Highest (n=710) Range FPG=4.6- 6.7 mmol/L	3494 (29)	3578 (33)	3727 (33)	<0.001 [†]
P value for trend across maternal FPG tertiles 0.05, †P ≤ 0.001	0.001^\dagger	<0.001*	<0.001 [†]	

EFSOCH, Exeter Family Study of Child Health; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; SEM, standard error of the mean

Supplementary Table 9. Mean and SEM for birth weight corrected for sex and gestational age in grams, in combined maternal FPG and fetal genetic score for birth weight tertiles in participants of Thai ancestry in HAPO.

Thai ancestry	Fetal GS tertiles			
Maternal FPG tertiles	Lowest (n=386)	Middle (n=396)	Highest (n=386)	P value for linear trend across GS tertiles
Lowest (n=527)	2943 (28)	3101 (27)	3067 (28)	0.002*
Range FPG=3.2- 4.3 mmol/L				
Middle (n=353)	3042 (34)	3132 (34)	3168 (33)	0.008*
Range FPG=4.4- 4.6 mmol/L				
Highest (n=288)	3187 (37)	3191 (39)	3255 (39)	0.09
Range FPG=4.7- 5.7 mmol/L				
<i>P</i> value for trend across maternal	<0.001 [†]	0.06	<0.001 [†]	
<u>FPG</u> tertiles 0.05, † <i>P</i> <0.001				

FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; SEM, standard error of the mean

Supplementary Table 10. Mean and SEM for birth weight corrected for sex and gestational age in grams, in combined maternal FPG and fetal genetic score for birth weight tertiles in participants of Afro-Caribbean ancestry in HAPO.

Afro-Caribbean ancestry	Fetal GS tertiles			
Maternal FPG tertiles	Lowest (n=354)	Middle (n=364)	Highest (n=354)	P value for linear tren across GS tertiles
Lowest (n=452) Range FPG=3.4- 4.3 mmol/L	3048 (34)	3102 (34)	3132 (35)	0.07
Middle (n=318) Range FPG=4.4- 4.6 mmol/L	3126 (43)	3186 (41)	3188 (40)	0.29
Highest (n=302) Range FPG=4.7- 5.9 mmol/L	3224 (42)	3247 (42)	3275 (44)	0.45
<i>P</i> value for trend across maternal FPG tertiles	0.001*	0.01*	0.01*	

FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; SEM, standard error of the mean

Supplementary Table 11. Mean and SEM for birth weight corrected for sex and gestational age in grams, in combined maternal FPG and fetal genetic score tertiles in subjects of Mexican-American ancestry in HAPO.

Mexican- American ancestry	Fetal GS tertiles			
Maternal FPG tertiles	Lowest (n=199)	Middle (n=204)	Highest (n=199)	P value fo linear tren across GS tertiles
Lowest (n=216) Range FPG =3.8- 4.4 mmol/L	3366 (47)	3392 (44)	3492 (49)	0.05
Middle (n=205) Range FPG =4.5- 4.8 mmol/L	3409 (48)	3396 (51)	3554 (44)	0.03*
Highest (n=181) Range FPG=4.9- 5.9 mmol/L	3528 (51)	3600 (51)	3685 (55)	0.05
<i>P</i> value for trend across maternal FPG tertiles	0.02*	0.003*	0.02*	

FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; SEM, standard error of the mean

Supplementary Table 12. Contingency table for participants of European ancestry showing the number and % of LGA in combined maternal FPG and fetal genetic score for birth weight tertiles, and odds ratios for LGA in the highest genetic score tertile relative to the lowest genetic score tertile, and highest FPG tertile relative to the lowest FPG tertile

		Fetal GS tertile	°S	OR for LGA highest vs lowest GS tertile (95% CI)
Maternal FPG	Lowest	Middle	Highest	
tertiles	(n=679)	(n=690)	(n=682)	
Lowest	19/230	13/233	31/233	1.70 (0.93-3.11)
(n=696) Range FPG	(8.3%)	(5.6%)	(13.3%)	
= 3.2-4.3 mmol/L				
Middle	13/228	31/219	36/198	3.68 (1.89-7.15)*
(n=645) Range FPG	(5.7%)	(14.2%)	(18.1%)	
= 4.3-4.6 mmol/L				
Highest	31/221	45/238	78/251	2.76 (1.74-4.40)*
(n=710) Range FPG	(14.0%)	(18.9%)	(31.1%)	
= 4.6-6.7 mmol/L				
OR for LGA highest	1.81	3.95	2.94	
vs lowest FPG tertile	(0.99-3.31)	(2.07-7.53)*	(1.85-4.67)*	
(95% CI)	· · · · ·	· · ·		
alue < 0.001				_

CI, confidence interval; EFSOCH, Exeter Family Study of Childhood Health; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; LGA, large for gestational age; OR, odds ratio

Supplementary Table 13. Contingency table for participants of Thai ancestry in HAPO showing the number and % of LGA in combined maternal FPG and fetal genetic score for birth weight tertiles, and odds ratios for LGA in the highest genetic score tertile relative to the lowest genetic score tertile, and highest FPG tertile relative to the lowest FPG tertile.

Thai ancestry		Fetal GS tertiles		OR for LGA highest vs lowest GS tertile (95% CI)
Maternal FPG	Lowest	Middle	Highest	•
tertiles	(n=386)	(n=396)	(n=386)	
Lowest	5/170	17/187	13/180	2.57 (0.90-7.37)
(n=527) Range	(2.9%)	(9.1%)	(7.2%)	. ,
FPG=3.2-4.3				
mmol/L				
Middle	6/113	9/116	10/124	1.56 (0.55-4.45)
(n=353) Range	(5.3%)	(7.8%)	(8.1%)	````
FPG=4.4-4.6	· · · ·	× /	~ /	
mmol/L				
Highest	9/103	9/93	12/92	1.57 (0.63-3.91)
(n=288) Range	(8.7%)	(9.7%)	(13.0%)	````
FPG=4.7-5.7				
mmol/L				
OR for LGA highest	3.16	1.07	1.93	
vs lowest FPG tertile	(1.03-9.70)*	(0.46 - 2.50)	(0.84 - 4.41)	
(95% CI)	````	. ,	````	

CI, confidence interval; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Pregnancy Outcome Study; LGA, large for gestational age; OR, odds ratio

Supplementary Table 14. Contingency table for participants of Afro-Caribbean ancestry in HAPO showing the number and % of LGA in combined maternal FPG and fetal genetic score for birth weight tertiles, and odds ratios for LGA in the highest genetic score tertile relative to the lowest genetic score tertile, and highest FPG tertile relative to the lowest FPG tertile.

Afro-Caribbean ances	try	Fetal GS ter	rtiles	OR for LGA highest vs lowest GS tertile (95% CI)
Maternal FPG	Lowest	Middle	Highest	
tertiles	(n=354)	(n=364)	(n=354)	
Lowest	7/153	9/153	13/146	2.04 (0.79-5.26)
(n=452) Range	(4.6%)	(5.9%)	(8.9%)	
FPG=3.4-4.3				
mmol/L				
Middle	4/98	12/107	9/113	2.03 (0.61-6.82)
(n=318) Range	(4.1%)	(11.2%)	(8.0%)	. , ,
FPG=4.4-4.6			. ,	
mmol/L				
Highest	13/103	11/104	13/95	1.10 (0.48-2.50)
(n=302) Range	(12.6%)	(10.6%)	(13.7%)	
FPG=4.7-5.9	· · · ·			
mmol/L				
OR for LGA highest	3.01	1.89	0.62	
vs lowest FPG tertile	(1.16-7.83)*	(0.76 - 4.74)	(0.27 - 1.39)	
(95% CI)	. ,	. ,		

CI, confidence interval; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Pregnancy Outcome Study; LGA, large for gestational age; OR, odds ratio

Supplementary Table 15. Contingency table for participants of Mexican-American ancestry in HAPO showing the number and % of LGA in combined maternal FPG and fetal genetic score for birth weight tertiles, and odds ratios for LGA in the highest fetal genetic score tertile relative to the lowest fetal genetic score tertile, and highest FPG tertile relative to the lowest FPG tertile.

Mexican-American an tertiles	icestry		Fetal GS	OR for LGA highest vs lowest GS tertile (95% CI)
Maternal FPG	Lowest	Middle	Highest	
tertiles	(n=199)	(n=204)	(n=199)	
Lowest	3/70	6/81	7/65	2.70 (0.67-10.90)
(n=216) Range	(4.3%)	(7.4%)	(10.8%)	
FPG=3.8-4.4				
mmol/L				
Middle	4/66	7/59	13/80	3.00 (0.93-9.72)
(n=205) Range	(6.1%)	(11.9%)	(16.3%)	
FPG=4.5-4.8 mmol/L				
Highest	9/63	15/64	13/54	1.90 (0.74-4.88)
(n=181) Range	(14.3%)	(23.4%)	(24.1%)	
FPG=4.9-5.9			× /	
mmol/L				
OR for LGA highest	3.72	3.47	2.62	
vs lowest FPG tertile	(0.96-14.43)	(1.27-9.53)*	(0.96-7.16)	
(95% CI)	````		```	
.05				•

CI, confidence interval; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Pregnancy Outcome Study; LGA, large for gestational age; OR, odds ratio

Supplementary Table 16. Frequency of LGA by fetal genetic score for birth weight tertile in mothers with FPG \geq 5.1 mmol/L. Odds ratio for LGA is relative to the lowest fetal genetic score for birth weight tertile.

Fetal GS tertiles	LGA, n (%)	OR for LGA	95% CI	P value
Lowest GS (n=47)	10 (21.3%)	1.00		
Middle GS (n=61)	18 (29.5%)	1.55	0.64-3.77	0.96
Highest GS (n=54)	23 (42.6%)	2.75	1.14-6.64	0.02*

*P<0.05

CI, confidence interval; EFSOCH, Exeter Family Study for Childhood Health; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Adverse Pregnancy Outcome Study; LGA, large for gestational age; OR, odds ratio

Supplementary Table 17. The effect of fetal genetic score for birth weight on LGA in Thai, Afro-Caribbean and Mexican-American mothers in HAPO with a FPG \geq 5.1 mmol/L. Odds ratio for LGA is relative to the lowest fetal genetic score for birth weight tertile.

Thai ancestry				
Fetal GS tertiles	LGA, n	OR for LGA	95% CI	P value
	(%)			
Lowest GS (n=20)	5 (25.0%)	1.00		
Middle GS (n=13)	5 (38.5%)	1.88	0.42-8.47	0.41
Highest GS (n=16)	2 (12.5%)	0.43	0.07-2.58	0.35
Afro-Caribbean				
ancestry				
Fetal GS tertiles	LGA, n	OR for LGA	95% CI	P value
	(%)			
Lowest GS (n=23)	4 (17.4%)	1.00		
Middle GS (n=25)	3 (12.0%)	0.65	0.13-3.27	0.60
Highest GS (n=21)	5 (23.8%)	1.48	0.34-6.48	0.60
Mexican-American				
ancestry				
Fetal GS tertiles	LGA, n	OR for LGA	95% CI	P value
	(%)			
Lowest GS (n=37)	5 (13.5%)	1.00		
Middle GS (n=34)	5 (14.7%)	1.10	0.29-4.20	0.89
Highest GS (n=27)	8 (29.6%)	2.69	0.77-9.44	0.12

CI, confidence interval; FPG, fasting plasma glucose; GS, genetic score for birth weight; HAPO, Hyperglycemia and Pregnancy Outcomes; LGA, large for gestational age; OR, odds ratio

Supplementary Table 18. Associations of maternal glucose and fetal genetic score for birth weight with birth weight and skin fold thickness in EFSOCH and HAPO. Birth weight and skin fold thickness have been converted into Z-scores (standard deviation units) to enable comparison. Data is for participants of European ancestry.

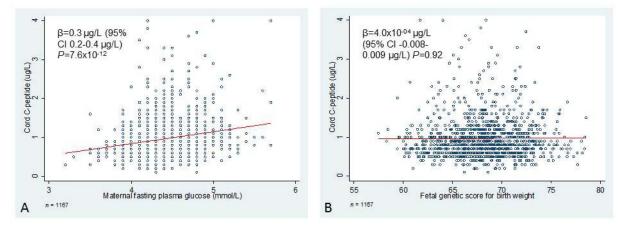
Exposure trait	Outcome	Effect (standard deviation [SD] change per 1 tertile higher exposure trait)	95% CI	P value
Glucose tertiles (n=2,051)	Birth weight	0.240	0.189-0.292	<0.001
Fetal GS tertiles (n=2,051)	Birth weight	0.188	0.136-0.240	<0.001
Glucose tertiles (n=1,996)	Skin fold thickness	0.274	0.222-0.325	<0.001
Fetal GS tertiles (n=1,996)	Skin fold thickness	0.177	0.125-0.229	<0.001

Supplementary Figure 1. Formula showing how a weighted genetic score (GS) is calculated. The number of alleles for each single-nucleotide polymorphism (SNP) included in the score is multiplied by its weight, or beta, and divided by a sum of all beta values multiplied by the total number of SNPs.

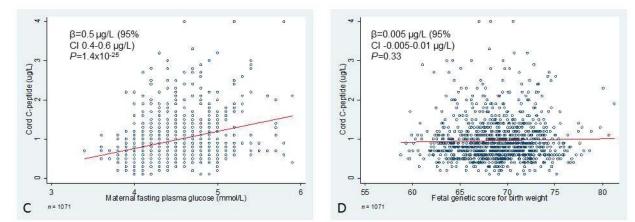
Weighted GS= <u>sum (number of alleles for each SNP (0, 1 or 2) * Beta)</u> sum of Beta * total number of SNPs

Supplementary Figure 2. Scatter plots with linear regression lines (red line) showing associations for maternal FPG and fetal genetic score for birth weight with cord C-peptide in participants of Thai ancestry (A and B respectively, n = 1167), Afro-Caribbean ancestry (C and D respectively, n = 1071) and Mexican-American ancestry (E and F respectively, n = 602). Cord C-peptide levels $\geq 4 \ \mu g/L$ are truncated at $4 \ \mu g/L$. CI, confidence interval; FPG, fasting plasma glucose.

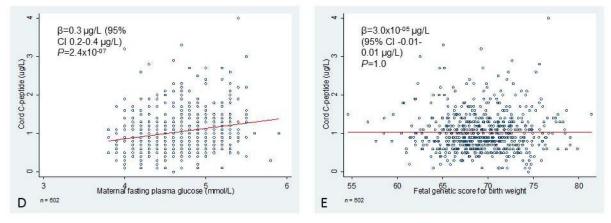
Thai ancestry



Afro-Caribbean ancestry



Mexican-American ancestry



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