

Table S1A: Newborn and maternal anthropometry in the Indian cohorts

Traits	PMNS			PS			MMNP			MBRC		
	Boys (N=271)	Girls (N=244)	All (N=515)	Boys (N=245)	Girls (N=266)	All (N=511)	Boys (N=271)	Girls (N=210)	All (N=481)	Boys (N=385)	Girls (N=299)	All (N=684)
Birthweight (kg)	2.74 (0.33)	2.62 (0.34)	2.68 (0.34)	2.96 (0.43)	2.87 (0.38)	2.91 (0.41)	2.67 (0.37)	2.59 (0.37)	2.64 (0.37)	2.81 (0.43)	2.71 (0.39)	2.76 (0.42)
Birth length (cm)	48.2 (1.94)	47.4 (1.92)	47.8 (1.97)	49.1 (2.13)	48.6 (2.05)	48.8 (2.11)	48.5 (2.29)	47.7 (2.14)	48.2 (2.26)	48.26 (3.00)	47.7 (2.85)	48.0 (2.95)
Ponderal index (kg/m ³)	24.4 (2.17)	24.6 (2.71)	24.5 (2.44)	24.9 (2.68)	25.1 (2.82)	25.0 (2.75)	23.4 (2.35)	23.9 (2.83)	23.6 (2.58)	25.3 (4.6)	25.4 (5.16)	25.3 (4.85)
Head circumference (cm)	33.4 (1.18)	32.7 (1.20)	33.1 (1.24)	34.2 (1.31)	33.6 (1.19)	33.9 (1.28)	33.5 (1.20)	32.9 (1.13)	33.2 (1.21)	33.7 (1.63)	33.3 (1.50)	33.6 (1.58)
Chest circumference (cm)	31.4 (1.56)	31.0 (1.59)	31.2 (1.59)	32.1 (1.68)	32.0 (1.6)	32.0 (1.64)	31.0 (1.83)	30.7 (1.69)	30.9 (1.77)	NA	NA	NA
Abdominal circumference (cm)	28.8 (1.93)	28.7 (1.89)	28.7 (1.91)	30.0 (2.01)	30.0 (1.83)	30.0 (1.92)	28.5 (2.07)	28.4 (2.08)	28.4 (2.07)	NA	NA	NA
Mid-upper arm circumference (cm)	9.7 (0.87)	9.6 (0.89)	9.7 (0.88)	10.4 (0.94)	10.3 (0.89)	10.4 (0.92)	9.7 (0.80)	9.7 (0.86)	9.7 (0.82)	NA	NA	NA
Triceps skinfold (mm)	4.2 (0.87)	4.3 (0.87)	4.3 (0.87)	4.2 (0.91)	4.3 (0.89)	4.2 (0.90)	4.1 (0.98)	4.3 (1.11)	4.2 (1.04)	NA	NA	NA
Subscapular skinfold (mm)	4.2 (0.88)	4.3 (0.91)	4.2 (0.89)	4.4 (0.89)	4.6 (0.93)	4.5 (0.91)	4.0 (0.93)	4.3 (1.03)	4.2 (0.98)	NA	NA	NA
Gestational age (weeks)	39.1 (1.05)	39.0 (1.06)	39.1 (1.06)	39.4 (1.20)	39.6 (1.07)	39.5 (1.14)	39.3 (1.18)	39.3 (1.15)	39.3 (1.17)	NA	NA	NA
Maternal age (years)	21.4 (3.48)	21.4 (3.65)	21.4 (3.56)	23.8 (4.16)	23.8 (4.31)	23.8 (4.24)	24.7 (3.94)	24.77 (3.77)	24.73 (3.86)	NA	NA	NA
Maternal BMI (kg/m ²)	18.2 (1.93)	17.9 (1.87)	18.1 (1.90)	23.4 (3.51)	23.8 (3.58)	23.6 (3.55)	20.2 (3.54)	20.4 (3.86)	20.3 (3.68)	NA	NA	NA

The values are mean (SD). N, number of term babies with both genotype and phenotype data available; BMI, body mass index; SD, standard deviation; NA, not available. PMNS, Pune Maternal Nutrition Study; PS, Parthenon Study; MMNP, Mumbai Maternal Nutrition Project; MBRC, Mysore Birth Records Cohort.

Table S1B: Newborn and maternal anthropometry in the Bangladeshi cohorts

Traits	Dhaka-WP2			Dhaka-WP3			UK-Bang		
	Boys (N=29)	Girls (N=24)	All (N=53)	Boys (N=162)	Girls (N=152)	All (N=314)	Boys (N=71)	Girls (N=72)	All (N=151)
Birthweight (kg)	2.99 (0.36)	2.80 (0.39)	2.90 (0.38)	2.90 (0.39)	2.77 (0.43)	2.84 (0.42)	3.18 (0.48)	3.06 (0.41)	3.12 (0.45)
Birth length (cm)	46.5 (2.81)	45.9 (2.23)	46.2 (2.56)	49.8 (2.58)	49.4 (2.61)	49.6 (2.60)	47.1 (1.84)	46.2 (2.08)	46.7 (2.03)
Ponderal index (kg/m ³)	29.9 (4.84)	28.9 (3.89)	29.5 (4.42)	23.6 (3.50)	23.0 (3.49)	23.3 (3.50)	28.7 (4.48)	29.1 (4.21)	28.9 (4.27)
Head circumference (cm)	33.7 (1.49)	33.0 (1.18)	33.4 (1.39)	33.1 (3.01)	32.7 (1.49)	32.9 (2.40)	34.0 (1.08)	33.1 (1.39)	33.6 (1.31)
Chest circumference (cm)	NA	NA	NA	NA	NA	NA	33.55 (2.37)	33.25 (1.46)	33.4 (1.97)
Abdominal circumference (cm)	NA	NA	NA	NA	NA	NA	31.86 (2.60)	30.95 (2.47)	31.41 (2.56)
Mid-upper arm circumference (cm)	10.0 (0.68)	9.7 (0.74)	9.9 (0.71)	10.5 (2.76)	10.0 (0.94)	10.2 (2.09)	11.4 (2.16)	10.3 (1.96)	10.9 (2.13)
Triceps skinfold (mm)	NA	NA	NA	NA	NA	NA	4.8 (2.08)	5.2 (1.80)	5.0 (1.93)
Subscapular skinfold (mm)	NA	NA	NA	NA	NA	NA	5.2 (2.02)	5.3 (1.75)	5.3 (1.87)
Gestational age (week)	40.2 (0.86)	40.4 (1.47)	40.3 (1.17)	39.2 (1.42)	39.2 (1.63)	39.2 (1.53)	38.7 (4.61)	39.2 (1.23)	39.0 (3.44)
Maternal Age (years)	20.07 (2.36)	19.83 (2.66)	19.91 (2.45)	22.74 (4.00)	22.66 (4.60)	22.68 (4.29)	29.22 (5.47)	30.19 (5.31)	29.68 (5.40)
Maternal BMI (kg/m ²)	20.10 (3.36)	21.36 (3.40)	20.58 (3.40)	22.39 (4.12)	22.91 (3.92)	22.65 (4.03)	25.75 (4.02)	26.79 (4.65)	26.24 (4.34)

The values are mean (SD). N, number of term babies with both genotype and phenotype data available; BMI, body mass index; SD, standard deviation; NA, not available; Dhaka-WP2, Work Package 2 of GIFTS; Dhaka-WP3, Work Package 3 of GIFTS; UK-Bang, London UK Bangladeshi cohort.

Table S2A: Body size and composition, and cardiometabolic measures during childhood and early adolescence in the Indian cohorts

Traits	Childhood			Early adolescence	
	PMNS (N=608)	PS (N=562)	MMNP (N=696)	PMNS (N=604)	PS (N=516)
Age (years)	6.17 (0.21)	5.0 (0.04)	5.85 (0.32)	11.6 (0.93)	13.53 (0.14)
Weight (kg)	16.2 (1.9)	15.2 (1.9)	16.2 (2.5)	29.3 (6.8)	41.9 (8.6)
Height (cm)	109.9 (4.7)	105.6 (4.2)	109.6 (4.9)	139.6 (8.4)	153.7 (6.9)
Body mass index (kg/m ²)	13.4 (0.9)	13.6 (1.1)	13.4 (1.4)	14.9 (2.1)	17.7 (3.1)
Head circumference (cm)	48.6 (1.5)	48.5 (1.4)	48.7 (1.5)	51.3 (1.8)	51.4 (1.4)
Waist circumference (cm)	50.3 (2.6)	45.9 (3.0)	49.1 (3.6)	57.4 (5.8)	66.3 (7.9)
Mid-upper arm circumference (cm)	15.2 (1.1)	15.3 (1.2)	15.4 (1.4)	18.8 (3.1)	22.1 (2.8)
Triceps skinfold (mm)	6.3 (1.4)	8.0 (2.1)	7.4 (2.0)	7.8 (3.3)	13.3 (5.7)
Subscapular skinfold (mm)	5.1 (1.1)	6.2 (1.9)	5.9 (1.7)	6.9 (3.9)	13.9 (7.1)
Fat percent (%)	19.6 (5.5)	25.5 (5.5)	15.3 (5.2)	16.7 (6.6)	21.7 (7.5)
Systolic blood pressure (mm)	90.4 (12.2)	96.6 (8.3)	92.1 (8.5)	106.3 (10.0)	109.4 (8.1)
Diastolic blood pressure (mm)	53.6 (10.2)	58.1 (6.8)	56.1 (7.6)	62.6 (6.8)	61.2 (7.0)
Fasting glucose (mg/dL)	88.9 (9.5)	87.0 (9.4)	86.4 (11.8)	87.2 (7.2)	90.2 (9.1)
120 minutes glucose(mg/dL)	99.6 (20.1)	106.3 (17.7)	84.4 (16.1)	NA	NA
Fasting insulin (mU/L)	3.70 (2.48)	4.16 (3.16)	4.17 (5.18)	5.89 (3.26)	6.49 (4.18)
HOMA-IR	0.82 (0.6)	0.89 (0.7)	0.63 (0.6)	1.27 (0.8)	1.69 (1.2)
Total cholesterol (mg/dL)	127.8 (22.2)	135.0 (26.6)	145.4 (33.1)	131.9 (22.4)	136.4 (26.9)
LDL-cholesterol (mg/dL)	73.0 (20.2)	41.3 (12.5)	89.8 (27.2)	77.7 (19.1)	80.5 (20.8)
HDL-cholesterol (mg/dL)	42.2 (9.9)	80.5 (39.2)	39.8 (8.7)	42.4 (9.0)	41.5 (9.8)
Triglycerides (mg/dL)	62.9 (22.9)	57.0 (26.7)	79.2 (30.6)	58.9 (21.5)	71.8 (37.1)

Values are mean (SD). N, Number of individuals where both genotype and phenotype data are available (variable with different traits). PMNS, Pune Maternal Nutrition Study; PS, Parthenon Study; MMNP, Mumbai Maternal Nutrition Project; HOMA-IR, homeostasis model assessment of insulin resistance, LDL, low density lipoprotein; HDL, high density lipoprotein; NA, not available.

Table S2B: Body size and composition, and cardiometabolic measures in the Indian adult cohorts

Traits	PMNS Mother (N=543)	PMNS Father (N=402)	PS Mother (N=525)	PS Father (N=499)	MMNP Mother (N=691)	MBRC (N=684)
Age (years)	27.9 (3.5)	39.4 (4.11)	28.9 (4.3)	36.4 (4.71)	32.9 (4.48)	62.2 (5.42)
Weight (kg)	44.4 (6.8)	59.9 (11.0)	56.4 (11.1)	67.1 (11.1)	55.0 (11.4)	66.56 (13.82)
Height (cm)	153.0 (5.1)	165.5 (6.1)	154.5 (5.3)	167.6 (6.3)	152.3 (5.5)	158.4 (9.7)
Body mass index (kg/m ²)	18.9 (2.7)	21.8 (3.6)	23.6 (4.5)	23.9 (3.6)	23.7 (4.7)	26.6 (5.3)
Head circumference (cm)	53.0 (1.5)	54.6 (1.6)	52.4 (1.5)	54.7 (1.6)	52.4 (1.4)	53.2 (1.7)
Waist circumference (cm)	65.8 (7.2)	80.1 (9.6)	82.2 (11.8)	86.2 (10.3)	77.7 (11.4)	93.0 (12.3)
Hip circumference (cm)	85.5 (7.2)	88.5 (6.9)	92.4 (8.7)	92.8 (7.3)	87.8 (7.8)	95.7 (11.2)
Waist to hip ratio	0.77 (0.07)	0.90 (0.07)	0.89 (0.07)	0.93 (0.06)	69.7 (9.52)	0.98 (0.11)
Mid upper arm circumference (cm)	23.5 (2.4)	26.4 (2.6)	26.6 (3.6)	28.6 (2.8)	26.5 (3.9)	29.5 (3.9)
Triceps skinfold (mm)	9.7 (4.6)	8.8 (4.3)	23.0 (9.7)	13.3 (5.6)	18.5 (7.2)	19.3 (7.7)
Subscapular skinfold (mm)	12.8 (6.5)	12.4 (6.0)	31.0 (12.6)	26.1 (11.3)	27.8 (11.5)	31.3 (9.8)
Systolic blood pressure (mmHg)*	107.3 (9.6)	110.6 (9.2)	108.7 (11.2)	116.9 (14.7)	107.6 (12.2)	127.0 (15.5)
Diastolic blood pressure (mmHg)*	63.7 (6.9)	63.7 (8.1)	65.7 (9.1)	73.6 (11.1)	67.2 (9.6)	75.2 (10.7)
Fasting glucose (mg/dl)*	94.2 (17.3)	93.9 (18.8)	100.2 (22.4)	108.2 (36.5)	NA	129.2 (52.4)
120 minutes glucose (mg/dL)	99.0 (29.1)	93.9 (39.4)	115.4 (51.1)	NA	NA	NA
Fasting insulin (mU/L)*	5.00 (3.71)	6.77 (4.78)	8.72 (5.66)	8.75 (5.65)	NA	13.03 (13.18)
HOMA-IR*	1.19 (0.93)	1.63 (1.5)	2.18 (1.6)	2.45 (2.2)	NA	4.03 (3.8)
Total cholesterol (mg/dl)*	139.5 (27.6)	155.5 (31.9)	159.7 (29.9)	176.9 (38.4)	NA	181.4 (42.1)
LDL- cholesterol (mg/dl)*	81.5 (23.6)	96.1 (25.2)	94.8 (24.0)	102.6 (29.2)	NA	107.7 (33.8)
HDL- cholesterol (mg/dl)*	45.5 (11.4)	40.4 (11.1)	44.1 (9.1)	38.5 (7.0)	NA	44.6 (10.8)
Triglycerides (mg/dl)*	63.3 (30.7)	95.4 (56.4)	104.2 (62.0)	179.3 (121.7)	NA	145.7 (76.5)

Values are mean (SD). N, Number of individuals with genotype phenotype data available and this can be variable with different traits. BMI was additionally included as a covariate for analysis of traits marked with an asterisk (*). SD, standard deviation; PMNS, Pune Maternal Nutrition Study; PS, Parthenon Study; MMNP, Mumbai Maternal Nutrition Project; MBRC, Mysore Birth Records Cohort; HOMA-IR, homeostatic model assessment insulin resistance; LDL, low density lipoprotein; HDL, high density lipoprotein; NA, not available.

Table S3A: Associations of fetal genetic score with birthweight in South Asian populations (excluding GDM mothers)

Cohort	fGS adjusted for sex and GA [@]				fGS adjusted for sex, GA, and mGS [#]			
	N	Effect	SE	P	N	Effect	SE	P
PMNS	512	0.009	0.004	0.048	441	0.010	0.005	0.047
PS	480	0.023	0.005	3.0x10 ⁻⁷	428	0.023	0.005	1.3x10 ⁻⁶
MMNP*	434	0.012	0.005	0.012	428	0.013	0.005	0.009
Dhaka-WP2	40	0.010	0.009	0.286	40	0.009	0.008	0.266
Dhaka-WP3	233	0.004	0.003	0.200	233	0.004	0.003	0.218
UK-Bang	75	0.012	0.006	0.058	75	0.011	0.007	0.094
Meta-analysis	1774	0.010	0.002	5.1x10 ⁻⁸	1645	0.010	0.002	1.8x10 ⁻⁷

@, $I^2=64.90\%$, Het-P=0.014 and #, $I^2=62.50\%$, Het-P=0.02

Table S3B: Associations of maternal genetic score with birthweight in South Asian populations (excluding GDM mothers)

Cohort	mGS adjusted for sex and GA [@]				mGS adjusted for sex, GA, and fGS [#]			
	N	Effect	SE	P	N	Effect	SE	P
PMNS	459	0.000	0.004	0.975	441	0.001	0.004	0.881
PS	444	0.010	0.004	0.031	428	0.010	0.004	0.020
MMNP*	428	0.000	0.004	0.946	428	0.001	0.004	0.874
Dhaka-WP2	40	0.020	0.008	0.019	40	0.020	0.008	0.019
Dhaka-WP3	233	0.004	0.003	0.256	233	0.003	0.003	0.280
UK-Bang	75	0.009	0.007	0.217	75	0.006	0.007	0.386
Meta-analysis	1679	0.005	0.002	0.014	1645	0.005	0.002	0.011

@, $I^2=34.30\%$, Het-P=0.179 and #, $I^2=30\%$, Het-P=0.210

Association analysis was performed using linear regression, with standardized birthweight adjusted for sex and gestational age as the dependent variable for each cohort separately, and finally the summary results were meta-analyzed. *In MMNP, the allocation group was additionally adjusted for. The effect size is in standard deviation units. The standard deviation of birthweight in kg in all the cohorts ranged between 0.34 to 0.45 kg. N, number of term babies; GA, gestational age; SE, standard error; I^2 , heterogeneity; Het-P, P value for heterozygosity; P, P value; mGS, maternal genetic score; fGS, fetal genetic score; GDM; gestational diabetes mellitus; PMNS, Pune Maternal Nutrition Study; PS, Parthenon Study; MMNP, Mumbai Maternal Nutrition Project; Dhaka-WP2, Work Package 2 of GIFTS; Dhaka-WP3, Work Package 3 of GIFTS; UK-Bang, London UK Bangladeshi cohort.

Table S4A: Country-wise meta-analysis of association of fetal genetic score with own birthweight

Cohort	fGS adjusted for sex and GA				fGS adjusted for sex, GA and mGS			
	N	Effect	SE	P	N	Effect	SE	P
Indians	2176	0.012	0.002	8.9×10^{-8}	1361	0.015	0.003	6.4×10^{-8}
Bangladeshis	517	0.017	0.004	1.4×10^{-4}	517	0.015	0.004	5.5×10^{-4}

Table S4B: Country-wise meta-analysis of association of maternal genetic score with offspring birthweight

Cohort	mGS adjusted for sex and GA				mGS adjusted for sex, GA and fGS			
	N	Effect	SE	P	N	Effect	SE	P
Indians	1386	0.003	0.003	0.197	1361	0.004	0.0026	0.128
Bangladeshis	517	0.014	0.004	4.0×10^{-4}	517	0.012	0.004	0.002

Association analysis was performed using linear regression with standardized birthweight adjusted for sex and gestational age as the dependent variable for each cohort independently and finally the summary results were meta-analyzed. In MMNP, the allocation group was additionally adjusted for. The effect size is in standard deviation units of birthweight per unit change in genetic score. The standard deviation of birthweight ranged from 0.34 to 0.45 kg. N, number of term babies having both genotype and phenotype data; SNP, single nucleotide polymorphism; GA, gestational age; SE, standard error; P, P value; fGS, fetal genetic score; mGS, maternal genetic score. Indians include Pune Maternal Nutrition Study (PMNS), Parthenon Study (PS), Mumbai Maternal Nutrition Project (MMNP) and Mysore Birth Records Cohort (MBRC). Bangladeshis include Work Package 2 of GIFTS (Dhaka-WP2), Work Package 3 of GIFTS (Dhaka-WP3), and UK-Bang, London UK Bangladeshi cohort.

Table S5: Associations of fetal and maternal genetic scores with other birth measurements in South Asian populations

Trait	fGS adjusted for sex, GA and mGS							mGS adjusted for sex, GA and fGS						
	N	Effect	L95	U95	P	I ²	Het-P	N	Effect	L95	U95	P	I ²	Het-P
Birth length	1795	0.007	0.002	0.012	0.011	0	0.558	1795	0.003	-0.002	0.008	0.222	37.5	0.156
Ponderal Index	1771	0.011	0.005	0.016	3.3x10 ⁻⁴	39.7	0.141	1771	0.001	-0.004	0.006	0.713	0	0.441
Head circumference	1819	0.010	0.005	0.015	2.3x10 ⁻⁴	0	0.722	1819	0.002	-0.002	0.007	0.320	0	0.970
Chest circumference	1452	0.013	0.007	0.018	2.8x10 ⁻⁶	12.0	0.333	1452	0.002	-0.002	0.007	0.321	0	0.467
Abdominal circumference	1452	0.015	0.010	0.021	6.9x10 ⁻⁸	52.1	0.099	1452	0.002	-0.003	0.007	0.463	52.2	0.099
Mid-upper arm circumference	1819	0.014	0.009	0.020	2.5x10 ⁻⁷	0	0.575	1819	0.005	0.000	0.010	0.034	0	0.992
Triceps skinfold	1430	0.013	0.007	0.018	1.6x10 ⁻⁵	11.8	0.334	1430	0.004	-0.001	0.009	0.161	55.4	0.081
Subscapular skinfold	1429	0.012	0.007	0.018	2.4x10 ⁻⁵	0	0.518	1429	0.003	-0.002	0.008	0.225	14.8	0.318

Association analysis was performed using linear regression with standardized birth measures adjusted for sex and gestational age as dependent variables, for each cohort independently and finally the summary results were meta-analyzed. In MMNP, the allocation group was additionally adjusted for, and in MBRC only sex was adjusted for, since gestational data was not available for the majority of the sample. The effect size is in standard deviation units. The South Asian populations include (from India) the PMNS, Pune Maternal Nutrition Study; PS, Parthenon Study; MMNP, Mumbai Maternal Nutrition Project; and MBRC, Mysore Birth Records Cohort; (from Bangladesh) WP2, Work Package 2 of GIFTS; Dhaka-WP3, Work Package 3 of GIFTS; and (from the UK) the UK-Bang, London UK Bangladeshi cohort. N, number of term babies having both genotype and phenotype data; SNP, single nucleotide polymorphism; GA, gestational age; L95 and U95, 95% confidence interval; I², heterogeneity; Het-P, P value for heterogeneity; P, P value; fGS, fetal genetic score; mGS, maternal genetic score.

Table S6: Associations of birthweight with anthropometric and cardiometabolic traits in Indian children[§] and adolescents[#]

Trait	Children					Adolescents				
	N	Effect	P	I ²	Het-P	N	Effect	P	I ²	Het-P
Weight	1674	0.849	1.9×10^{-51}	50.3	0.134	1081	0.590	9.2×10^{-20}	0	0.977
Height	1673	0.665	1.3×10^{-31}	46.8	0.153	1081	0.523	8.6×10^{-17}	0	0.901
Body Mass Index	1673	0.634	2.5×10^{-27}	0	0.681	1081	0.456	8.7×10^{-11}	0	0.828
Head circumference	1674	0.721	3.2×10^{-39}	44.7	0.164	1076	0.755	8.1×10^{-27}	0	0.348
Waist circumference	1672	0.661	8.6×10^{-29}	45.4	0.160	1059	0.462	1.7×10^{-10}	0	0.986
Mid-upper arm circumference	1674	0.558	7.1×10^{-21}	0	0.943	1075	0.406	5.9×10^{-9}	0	0.925
Triceps skin-fold	1673	0.245	3.0×10^{-5}	0	0.856	1075	0.321	5.7×10^{-6}	0	0.830
Sub-scapular skin-fold	1673	0.311	1.3×10^{-7}	0	0.800	1074	0.318	5.7×10^{-6}	0	0.657
Fat percent	1659	0.123	0.030	28.3	0.248	1048	0.145	0.031	0	0.516
Systolic blood pressure*	1657	-0.140	0.024	4.7	0.350	1064	-0.148	0.041	0	0.714
Diastolic blood pressure*	1658	-0.162	0.010	52.2	0.123	1055	-0.020	0.794	51.8	0.150
Fasting glucose*	1653	-0.075	0.237	0	0.664	1071	-0.042	0.580	0	0.959
120 minutes glucose*	1624	0.045	0.478	35.7	0.211	NA	NA	NA	NA	NA
Fasting insulin*	1644	0.001	0.991	0	0.824	1072	-0.055	0.405	0	0.627
HOMA-IR*	1570	-0.025	0.691	0	0.838	1071	-0.061	0.365	0	0.655
Total cholesterol*	1652	-0.045	0.481	0	0.675	1072	-0.059	0.441	68.9	0.073
LDL-cholesterol*	1652	0.030	0.638	0	0.742	1072	-0.020	0.787	67.3	0.080
HDL-cholesterol*	1662	-0.036	0.573	13.5	0.315	1072	0.075	0.318	0	0.414
Triglycerides*	1652	-0.209	9.8×10^{-4}	41.3	0.182	1072	-0.228	0.002	0	0.344

Association analysis was performed using linear regression with standardized log10 transformed traits as dependent variables for each cohort independently and finally the summary results were meta-analyzed. Age and sex were included as covariates in the regression model for all traits; BMI was additionally included as a covariate for analysis of traits marked with an asterisk (*). In MMNP, the allocation group was additionally adjusted for. §, The meta-analysis for children included those from the Pune Maternal Nutrition Study at 6 yrs, the Parthenon Study at 5 yrs and the Mumbai Maternal Nutrition Project at 7 yrs of age. #, Meta-analysis included adolescents from Pune Maternal Nutrition Study at 12 yrs and from Parthenon Study at 13.5 yrs; P, P value; I², heterogeneity; Het-P, P value for heterozygosity; HOMA-IR, homeostasis model assessment of insulin resistance; LDL, low density lipoprotein; HDL, high density lipoprotein; NA, not available. Those passing the Bonferroni corrected $P \leq 0.001$ were considered as statistically significant.

Table S7: Meta-analysis of associations of maternal genetic score with anthropometric and cardiometabolic traits in Indian children[§] & adolescents[#]

Traits	Children					Adolescents				
	N	effect	P	I ²	Het-P	N	effect	P	I ²	Het-P
Weight	1760	0.003	0.152	0	0.911	1028	0.002	0.523	0	0.611
Height	1759	0.002	0.409	0	0.505	1028	0.002	0.478	0	0.480
Body mass index	1759	0.003	0.255	0	0.654	1028	0.001	0.723	20.9	0.261
Head circumference	1760	0.001	0.808	0	0.977	1023	0.002	0.510	0	0.645
Waist circumference	1758	0.003	0.263	0	0.915	1005	0.001	0.758	0	0.398
Mid-upper arm circumference	1759	0.004	0.122	0	0.916	1023	0.003	0.353	0	0.407
Triceps skinfold	1759	0.003	0.263	0	0.550	1022	-0.001	0.789	0	0.352
Subscapular skinfold	1759	0.003	0.227	0	0.628	1021	0.000	0.861	42.7	0.186
Fat percent	1753	-0.001	0.661	3.5	0.355	993	0.000	0.909	0	0.449
Systolic blood pressure*	1740	-0.002	0.348	0	0.967	1005	-0.001	0.784	0	0.629
Diastolic blood pressure*	1741	0.000	0.891	0	0.954	1005	-0.002	0.440	0	0.884
Fasting glucose*	1733	-0.002	0.449	11.1	0.325	1018	0.000	0.994	0	0.826
120 minutes glucose*	1710	-0.002	0.413	0	0.767	NA	NA	NA	NA	NA
Fasting insulin*	1727	0.000	0.963	26.9	0.255	1019	0.001	0.696	0	0.746
HOMA-IR*	1662	0.000	0.838	52.6	0.121	1018	0.001	0.738	0	0.776
Total cholesterol*	1732	0.004	0.056	5.7	0.346	1019	0.002	0.422	0	0.752
LDL-cholesterol*	1733	0.003	0.209	46.8	0.153	1019	0.000	0.911	0	0.674
HDL-cholesterol*	1742	0.003	0.219	59.4	0.085	1019	0.005	0.094	0	0.385
Triglycerides*	1731	0.000	0.840	57	0.098	1019	0.001	0.761	18.0	0.269

Association analysis was performed using linear regression with standardized log10 transformed traits as the dependent variable for each cohort independently and finally the summary results were meta-analyzed. Age and sex were included as covariates in the regression model for all traits; BMI was additionally included as a covariate for analysis of traits marked with an asterisk (*). §, Meta-analysis for children included those from Pune Maternal Nutrition Study at 6 yrs, Parthenon Study at 5 yrs; Mumbai Maternal Nutrition Project at 7 yrs of age; #, Meta-analysis included adolescents from Pune Maternal Nutrition Study at 12 yrs and from Parthenon Study at 13.5 yrs; P, P value; I², heterogeneity; Het-P, P value for heterozygosity; SNP, single nucleotide polymorphism; HOMA-IR, homeostasis model assessment of insulin resistance; LDL, low density lipoprotein; HDL, high density lipoprotein; NA, not available. Those passing the Bonferroni corrected $P \leq 0.001$ were considered as statistically significant.