Online Supplementary Material

Supplemental Table 1. SNPs used to derive the genetic risk score for birth weight

SNP	Locus	EA	NEA	Beta	P
rs900400	CCNL1	С	T	-0.072	3.6×10^{-38}
rs9883204	ADCY5	C	T	-0.059	5.5×10^{-20}
rs1042725	HMGA2	T	C	-0.047	1.4×10^{-19}
rs6931514	CDKAL1	G	A	-0.050	1.5×10^{-18}
rs4432842	5q11.2	C	T	-0.034	4.6×10^{-8}
rs724577	LCORL	C	A	-0.042	4.6×10^{-11}
rs1801253	ADRB1	G	C	-0.041	3.6×10^{-9}

EA, effect allele; EAF, effect allele frequency; SNP, Single-nucleotide polymorphisms.

Supplemental Table 2. HRs (95% CI) of type 2 diabetes according to quintiles of IGF-1 levels stratified by birth weight

IGF-1 levels, in quintile							
Birth weight	Q1	Q2	Q3	Q4	Q5	P for trend	Per SD
<2.5 kg							_
Cases/person-years	168/36,360	92/34,951	91/33,101	72/33,691	88/33,849		511/171,952
HR (95% CI)*	1.00	0.76 (0.55-1.04)	0.95 (0.70-1.30)	0.80 (0.57-1.12)	1.22 (0.89-1.68)	0.44	1.04 (0.94-1.16)
2.5-4 kg							
Cases/person-years	759/262,544	530/270,212	429/275,699	352/276,697	316/282,232		2,386/1,367,385
HR (95% CI)*	1.00	0.88 (0.77-1.00)	0.82 (0.72-0.94)	0.68 (0.59-0.80)	0.73 (0.63-0.86)	< 0.001	0.90 (0.86-0.95)
≥4 kg							
Cases/person-years	137/54,357	79/52,108	79/48,839	58/48,082	49/42,058		402/245,444
HR (95% CI)*	1.00	0.76 (0.55-1.05)	0.79 (0.56-1.11)	0.86 (0.60-1.23)	0.76 (0.51-1.14)	0.22	0.94 (0.83-1.06)
P for interaction	0.02						

^{*}Adjusted for age, sex, overall health rating, Townsend Deprivation Index, smoking status, alcohol consumption, sleep duration, physical activity, maternal smoking, family history of diabetes and history of hypertension, BMI, concentrations of C-reactive protein, total cholesterol, triglycerides and HDL-cholesterol.

Supplemental Table 3. HRs (95% CI) of type 2 diabetes according to quintiles of IGF-1 levels stratified by birth weight after excluding the participants with less than two years of follow-up

		I					
Birth weight	Q1	Q2	Q3	Q4	Q5	P for trend	Per SD
<2.5 kg							
Cases/person-years	143/28,871	81/27,872	81/26,363	64/26,884	79/26,988		448/136,979
HR (95% CI)*	1.00	0.78 (0.55-1.09)	0.98 (0.70-1.37)	0.85 (0.60-1.23)	1.24 (0.88-1.75)	0.31	1.07 (0.95-1.19)
≥2.5 kg							
Cases/person-years	761/252,236	549/257,120	452/258,983	367/259,300	323/258,877		2,452/1,286,518
HR (95% CI)*	1.00	0.92 (0.81-1.04)	0.86 (0.75-0.99)	0.75 (0.64-0.87)	0.76 (0.65-0.88)	< 0.001	0.93 (0.88-0.97)
P for interaction	0.002						

^{*}Adjusted for age, sex, overall health rating, Townsend Deprivation Index, smoking status, alcohol consumption, sleep duration, physical activity, maternal smoking, family history of diabetes and history of hypertension, BMI, concentrations of C-reactive protein, total cholesterol, triglycerides and HDL-cholesterol.

Supplemental Table 4. HRs (95% CI) of type 2 diabetes according to quintiles of IGF-1 levels stratified by birth weight among the participants reported good or excellent overall health rating

		I					
Birth weight	Q1	Q2	Q3	Q4	Q5	P for trend	Per SD
<2.5 kg							
Cases/person-years	67/25,643	47/26,498	52/26,054	33/26,926	55/26,323		254/131,445
HR (95% CI)*	1.00	0.94 (0.61-1.47)	1.25 (0.81-1.91)	0.84 (0.51-1.38)	1.64 (1.06-2.53)	0.08	1.15 (0.99-1.33)
≥2.5 kg							
Cases/person-years	482/239,839	362/258,875	291/266,378	233/267,814	221/268,462		1,589/1301,368
HR (95% CI)*	1.00	0.82 (0.70-0.96)	0.76 (0.64-0.90)	0.64 (0.53-0.77)	0.73 (0.60-0.88)	< 0.001	0.90 (0.85-0.96)
P for interaction	< 0.001						

^{*}Adjusted for age, sex, Townsend Deprivation Index, smoking status, alcohol consumption, sleep duration, physical activity, maternal smoking, family history of diabetes and history of hypertension, BMI, concentrations of C-reactive protein, total cholesterol, triglycerides and HDL-cholesterol.