

Supplementary Table 1. Biochemistry laboratory methods used, with the between-assay coefficients of variation (CV%, mean \pm SD) and systematic errors (Bias%, mean \pm SD) shown

Assay	Method	Reagents	CV% (N ^a), mean \pm SD, (Study)	BIAS% (N ^b), mean \pm SD, (Study)
Alanine amino transferase	Photometric, kinetic (IFCC)	Abbott Laboratories	(5) 5,4% \pm 2,5 (AYLS)	(22) 3,7% \pm 11,6 (AYLS)
Apolipoprotein A1	Immunoturbidimetric	Abbott Laboratories	(3) 1,5% \pm 0,1 (AYLS) (3) 1,2% \pm 0,7 (ESTER)	(3) -4,1% \pm 1,4 (AYLS) (3) -6,8% \pm 0,8 (ESTER)
Apolipoprotein B	Immunoturbidimetric	Abbott Laboratories	(3) 1,9% \pm 0,7 (AYLS) (3) 2,0% \pm 1,2 (ESTER)	(3) -10,3% \pm 0,7 (AYLS) (3) -7,5% \pm 1,5 (ESTER)
Aspartate aminotransferase	Photometric, kinetic (IFCC)	Abbott Laboratories	(5) 2,2% \pm 1,2 (AYLS)	(22) 7,1% \pm 3,7 (AYLS)
Cholesterol, total	Enzymatic	Abbott Laboratories	(30) 0,7% \pm 0,2 (AYLS)	(30) -0,3% \pm 0,8 (AYLS)
Cholesterol, HDL	Enzymatic, homogenous direct	Abbott Laboratories	(30) 1,7% \pm 0,7 (AYLS)	(30) 1,5% \pm 2,0 (AYLS)
Cholesterol, LDL	Calculated by Friedewald			
C-Reactive protein (high sensitivity)	Immunoturbidimetric	Abbott Laboratories	(7) 6,1% \pm 2,1 (AYLS) (4) 4,6% \pm 3,4 (ESTER)	(12) 0,0% \pm 6,1 (AYLS) (1) -3,1% \pm 1,7 (ESTER)
Free Fatty Acids	Enzymatic	Wako Chemicals,	(3) 1,8% \pm 0,6 (AYLS)	(3) -0,5% \pm 1,3 (AYLS)

		(Neuss, Germany)	(3) 1,8% ±0,9 (ESTER)	(2) -0,1% ±0,4 (ESTER)
Gamma-Glutamyl Transferase	Photometric, kinetic (IFCC)	Abbott Laboratories	(5) 2,5% ±0,3 (AYLS)	(22) -4,7% ±2,6 (AYLS)
Glucose	Enzymatic, hexokinase	Abbott Laboratories	(5) 1,9% ±0,3 (AYLS)	(22) 3,6% ±2,1 (AYLS)
Insulin	Chemiluminescent Microparticle Immuno Assay	Abbott Laboratories	(3) 1,6% ±0,4 (AYLS) (3) 2,1% ±1,0 (ESTER)	(2) 2,8% ±0,7 (AYLS) (2) -3,1% ±1,7 (ESTER)
Lipoprotein (a)	Immunoturbidimetric	Abbott Laboratories	(3) 2,3% ±0,7 (AYLS) (3) 1,1% ±0,7 (ESTER)	(3) 1,6% ±1,9 (AYLS) (3) -0,2% ±1,8 (ESTER)
Sex-hormone binding globulin	Chemiluminescent Microparticle Immuno Assay	Abbott Laboratories	(3) 5,5% ±0,6 (AYLS) (3) 4,6% ±1,1 (ESTER)	(2) 0,0% ±2,6 (AYLS) (2) 1,8% ±2,4 (ESTER)
Testosterone	Chemiluminescent Microparticle Immuno Assay	Abbott Laboratories	(3) 2,9% ±0,8 (AYLS) (3) 2,4% ±0,4 (ESTER)	(2) -9,6% ±2,6 (AYLS) (2) -1,2% ±6,9 (ESTER)
Triglycerides	Enzymatic	Abbott Laboratories	(30) 1,3% ±0,4 (AYLS)	(30) -4,6% ±2,4 (AYLS)
Uric Acid	Enzymatic	Abbott Laboratories	(5) 2,6% ±0,9 (AYLS)	(22) 0,0% ±2,9 (AYLS)

^aNumber of different quality controls

^bNumber of reference samples

Supplementary Table 2. Baseline participant characteristics by birth cohort of adult offspring, exposed to maternal gestational diabetes (regardless of maternal BMI), maternal pre-pregnancy obesity or overweight but not gestational diabetes and their controls, i.e. offspring of normoglycemic mothers with normal pre-pregnancy weight.

Characteristic	ESTER cohort (n=494)			AYLS cohort (n=412)		
	Gestational diabetes (n=156)	Pre-pregnancy obesity or overweight ^a , no gestational diabetes (n=48)	Control (n=290)	Gestational diabetes (n=37)	Pre-pregnancy obesity or overweight ^a , no gestational diabetes (n=109)	Control (n=266)
<i>Birth/Perinatal characteristics</i>						
Maternal body mass index before pregnancy, mean (SD), kg/m ²	25.0 (5.7)	27.6 (1.9)	21.3 (1.9)	24.4 (3.9)	28.1 (3.4)	21.1 (1.9)
Twin pregnancy, n (%)	2 (1.3)	0 (0)	1 (0.3)	0 (0)	2 (1.8)	7 (2.6)
Maternal hypertension, n (%)	40 (25.6)	10 (20.8)	35 (12.1)	12 (32.4)	43 (39.4)	38 (14.3)
Maternal pre-eclampsia, n (%)	11 (7.1)	3 (6.3)	13 (4.5)	1 (2.7)	5 (4.6)	4 (1.5)
Maternal smoking during pregnancy, n (%)	17 (10.9)	11 (22.9)	45 (15.5)	6 (16.2)	22 (20.2)	45 (16.9)
Birth weight, mean (SD), g	3641 (613)	3730 (712)	3515 (468)	3881 (648)	3339 (901)	3555 (462)
Birth weight SD score, mean (SD)	0.46 (1.2)	0.33 (1.3)	-0.06 (1.0)	0.93 (1.3)	-0.03 (1.4)	-0.03 (0.9)
Gestational age, mean (SD), weeks	39.0 (1.8)	40.0 (1.8)	39.8 (1.5)	39.0 (1.5)	38.7 (3.2)	40.0 (1.3)
Small for gestational age, n (%)	0 (0)	3 (6.8)	5 (1.7)	1 (2.7)	12 (11.0)	3 (1.1)

Large for gestational age, n (%)	18 (11.5)	4 (8.3)	3 (2.1)	8 (21.6)	6 (5.5)	4 (1.5)
Male, n (%)	83 (53.2)	26 (54.2)	138 (52.4)	22 (59.5)	52 (47.7)	120 (45.1)
<i>Current characteristics</i>						
Age, mean (SD), years	23.0 (1.2)	23.6 (1.0)	23.6 (1.1)	25.0 (0.6)	25.3 (0.6)	25.3 (0.6)
Daily smoking, n (%)	40 (25.6)	12 (25.0)	56 (19.3)	15 (40.5)	40 (36.7)	85 (32.0)
Parental education, n (%)						
Basic	22 (14.1)	6 (12.5)	12 (4.1)	6 (16.2)	15 (13.8)	18 (6.8)
Secondary	84 (54.8)	29 (60.4)	177 (61.0)	17 (45.9)	54 (49.5)	104 (39.1)
Lower-level tertiary	16 (10.3)	6 (12.5)	36 (12.4)	0 (0)	12 (11.0)	30 (11.3)
Upper-level tertiary	33 (21.28)	7 (14.6)	62 (21.4)	13 (35.1)	21 (19.3)	103 (38.7)
Maternal medical conditions at offspring mean age 24 years, n (%)						
Hypertension	32 (20.5)	13 (27.1)	30 (10.3)	10 (27.0)	37 (33.9)	22 (8.3)
Diabetes	54 (34.6)	2 (4.2)	7 (2.4)	16 (43.2)	16 (14.7)	3 (1.1)
Stroke or myocardial infarction	2 (1.3)	0 (0.0)	2 (0.7)	1 (2.7)	1 (0.9)	1 (0.4)
Paternal medical conditions at offspring mean age 24 years, n (%)						
Hypertension	34 (21.8)	9 (18.8)	47 (16.2)	6 (16.2)	19 (17.4)	36 (13.5)
Diabetes	12 (7.7)	6 (12.5)	24 (8.3)	4 (10.8)	17 (15.6)	19 (7.1)
Stroke or myocardial infarction	12 (7.7)	1 (2.1)	15 (5.2)	1 (2.7)	2 (1.8)	4 (1.5)

Body mass index, mean (SD), kg/m ²						
Men	25.9 (4.7)	25.5 (3.6)	24.0 (3.4)	26.9 (5.3)	24.1 (3.8)	25.9 (4.2)
Women	24.1 (4.4)	23.7 (3.5)	23.2 (4.4)	25.1 (5.0)	22.8 (4.1)	24.0 (4.3)
Height, mean (SD), cm						
Men	178.2 (6.2)	179.0 (6.8)	178.0 (7.4)	180.5 (6.6)	180.0 (6.3)	179.6 (0.1)
Women	165.5 (5.9)	163.9 (3.9)	163.9 (6.2)	165.0 (7.1)	166.5 (6.0)	165.9 (0.1)
Body mass index ≥ 25kg/m ² , n (%)	63 (40.4)	25 (52.1)	85 (29.3)	18 (48.6)	52 (47.7)	73 (27.4)
Body mass index ≥ 30kg/m ² , n (%)	18 (11.5)	2 (4.2)	22 (7.6)	6 (16.2)	20 (18.3)	19 (7.1)

ESTER, Preterm Birth and Early-Life Programming of Adult Health and Disease

AYLS, Arvo Ylppö Longitudinal Study

^a Pre-pregnancy body mass index ≥ 25kg/m²

Supplementary Table 3. Cardio-metabolic markers of young adults born to mothers with gestational diabetes (regardless of maternal BMI) compared with controls, comprising offspring of normoglycemic mothers with normal pre-pregnancy weight, and offspring of mothers with pre-pregnancy obesity or overweight but no gestational diabetes, compared with controls.

Characteristic/Measure and model	Controls (n=556)	Maternal gestational diabetes (n=193)		P value	Maternal pre-pregnancy obesity or overweight, no gestational diabetes (n=157)		P value
	Mean (SD)	Mean difference ^a	95 % Confidence interval		Mean difference ^a	95 % Confidence interval	
Fasting plasma glucose, mmol/l	5.1 (1.1)						
1		1.6	0.1, 3.1	0.03	2.3	0.5, 4.3	0.01
2		0.4	-1.3, 2.2	0.63	0.8	-1.1, 2.7	0.42
3		0.8	-0.7, 2.2	0.31	1.5	-0.4, 3.5	0.11
4		0.4	-1.3, 2.2	0.62	0.4	-1.5, 2.3	0.69
Fasting serum insulin, mU/l	14.8 (2.6)						
1		12.7	4.4, 21.9	0.002	8.7	0.2, 17.8	0.05
2		8.4	-1.3, 19.0	0.09	4.9	-4.3, 14.9	0.31
3		4.2	-2.8, 11.6	0.24	-2.2	-9.1, 5.2	0.56
4		8.4	-0.1, 17.6	0.05	-3.1	-10.7, 5.0	0.44
Serum testosterone in men, nmol/l	19.7 (1.4)						

1		-7.9	-15.2, 0.2	0.06	-10.1	-18.4, -0.9	0.03
2		-6.1	-15.2, 3.9	0.22	-9.4	-18.7, 1.1	0.08
3		-4.3	-11.8, 3.8	0.29	-4.5	-13.2, 4.9	0.34
4		-7.3	-15.9, 2.1	0.12	-6.1	-15.4, 4.2	0.23
Serum testosterone in women, nmol/l		1.3 (1.4)					
1		0.2	-8.6, 9.7	0.97	1.0	-7.7, 10.6	0.83
2		-7.0	-16.0, 0.55	0.50	2.8	-7.4, 14.2	0.61
3		-2.0	-10.4, 7.4	0.66	-1.6	-10.0, 7.6	0.72
4		3.8	-7.0, 15.8	0.51	0.5	-9.4, 11.5	0.92
Serum sex hormone binding globulin in men, nmol/l		32.4 (1.5)					
1		-12.4	-20.2, -3.9,	0.005	-3.9	-13.3, 6.5	0.45
2		-9.3	-18.9, 1.6	0.09	-2.5	-13.1, 9.3	0.66
3		-6.9	-14.7, 1.5	0.11	3.5	-6.4, 14.4	0.51
4		-10.3	-19.2, -0.5	0.04	2.7	-7.9, 14.6	0.63
Serum sex hormone binding globulin in women, nmol/l		137.3 (2.3)					
1		-33.2	-46.3, -16.8	0.0003	-3.3	-22.3, 20.3	0.76
2		-37.5	-51.9, -18.7	0.001	-4.9	-26.3, 22.7	0.70
3		-27.8	-41.8, -10.3	0.003	5.9	-14.4, 31.1	0.60

4		-36.6	-50.9, -18.0	0.001	2.0	-20.4, 30.6	0.88
	Serum free fatty acid, mmol/l	0.5 (1.6)					
1		-3.6	-11.0, 4.5	0.37	3.9	-4.1, 12.6	0.35
2		-7.3	-15.9, 2.1	0.13	0.8	-8.0, 10.4	0.86
3		-2.1	-9.7, 6.3	0.62	5.3	-3.0, 14.3	0.21
4		-6.9	-15.5, 2.5	0.15	2.2	-6.7, 12.0	0.64
	Total cholesterol, mmol/l	4.6 (1.2)					
1		-2.9	-6.5, 0.9	0.14	1.9	-3.9, 8.1	0.53
2		-3.9	-7.5, 0.1	0.04	0.8	-2.9, 4.7	0.66
3		-3.9	-7.5, -0.2	0.04	1.3	-4.6, 7.5	0.68
4		-3.9	-7.5, -0.2	0.04	-0.3	-4.0, 3.6	0.88
	HDL cholesterol, mmol/l	1.6 (1.3)					
1		-6.6	-10.9, -2.2	0.004	-0.6	-7.3, 6.5	0.86
2		-5.5	-9.7, -1.2	0.01	-3.9	-8.0, 0.2	0.06
3		-4.8	-9.1, -0.3	0.04	0.6	-6.0, 7.7	0.86
4		-5.4	-9.4, -1.0	0.02	-1.8	-5.8, 2.4	0.40
	LDL cholesterol, mmol/l	2.6 (1.3)					
1		-1.4	-7.5, 5.2	0.67	2.6	-6.9, 13.1	0.59

2		-3.9	-9.7, 2.3	0.21	2.6	-3.2, 8.9	0.39
3		-4.0	-10.0, 2.3	0.21	0.9	-8.2, 11.1	0.85
4		-4.0	-9.8, 2.0	0.19	0.2	-5.5, 6.3	0.95
Triglycerides, mmol/l	0.9 (1.6)						
1		5.5	-3.7, 15.8	0.25	6.5	-7.1, 22.1	0.36
2		0.4	-8.7, 10.4	0.94	3.8	-5.4, 13.8	0.43
3		1.1	-7.6, 10.6	0.81	3.9	-9.2, 18.8	0.58
4		0.0	-8.8, 9.6	0.98	-1.0	-9.6, 8.3	0.82
Lipoprotein (a) mg/l	95.1 (3.1)						
1		-18.9	-33.9, -0.4	0.05	4.3	-16.1, 29.4	0.70
2		-10.4	-30.2, 15.0	0.39	8.8	-15.0, 39.0	0.50
3		-19.8	-34.9, -1.2	0.04	2.9	-17.5, 28.4	0.80
4		-10.1	-30.0, 15.5	0.40	6.3	-17.1, 36.3	0.63
Apolipoprotein A1, g/l	1.5 (1.2)						
1		-4.5	-7.5, -1.4	0.005	-2.7	-5.6, 0.4	0.09
2		-4.8	-8.2, -1.2	0.01	-2.9	-6.2, 0.6	0.11
3		-3.5	-6.6, -0.3	0.03	-1.2	-4.3, 1.9	0.45
4		-4.6	-8.1, -1.0	0.01	-2.0	-5.2, 1.4	0.25

Apolipoprotein B, g/l	0.7 (1.3)						
1		-1.6	-6.1, 3.1	0.50	-0.1	-2.3, 2.1	0.91
2		-4.3	-9.5, 1.3	0.13	2.5	-2.9, 8.3	0.36
3		-4.3	-8.6, 0.2	0.06	0.3	-4.4, 5.1	0.91
4		-4.5	-9.5, 0.9	0.10	0.3	-4.6, 5.4	0.91
Plasma uric acid, $\mu\text{mol/l}$	279.7 (1.3)						
1		4.5	-2.8, 12.2	0.23	2.9	-1.9, 8.0	0.23
2		-2.8	-8.5, 3.3	0.37	-0.5	-4.6, 3.7	0.80
3		1.5	-5.4, 8.9	0.68	1.3	-5.9, 3.5	0.58
4		-2.9	-8.4, 3.1	0.35	-2.8	-6.7, 1.2	0.17
High-sensitivity C-reactive protein, mg/l	1.0 (3.7)						
1		-14.6	-33.6, 9.7	0.22	-4.3	-33.9, 38.7	0.82
2		-17.0	-36.6, 8.6	0.17	33.1	3.5, 71.1	0.03
3		-23.2	-39.8, -2.0	0.03	-9.1	-36.5, 30.3	0.61
4		-17.0	-35.8, 7.4	0.16	16.4	-8.7, 48.6	0.22
Plasma alanine aminotransferase, U/l	21.1 (1.7)						
1		4.5	-4.9, 14.8	0.36	13.2	-2.0, 30.7	0.09
2		-1.6	-10.6, 8.4	0.75	3.4	-6.1, 13.8	0.50

3		-0.1	-8.9, 9.4	0.98	10.3	-4.1, 26.9	0.17
4		-1.7	-10.4, 8.0	0.72	-1.9	-10.6, 7.8	0.70
	Plasma aspartate transaminase, U/l	23.3 (1.4)					
1		1.9	-4.9, 9.3	0.60	3.9	-7.0, 16.2	0.50
2		1.4	-5.2, 8.4	0.69	1.3	-5.2, 8.1	0.71
3		2.2	-4.8, 9.6	0.55	4.6	-6.3, 16.8	0.42
4		1.6	-5.0, 8.7	0.64	0.2	-6.2, 7.0	0.95
	Plasma gamma glutamate, U/l	18.0 (1.7)					
1		4.9	-4.6, 15.4	0.32	7.8	-6.2, 24.0	0.29
2		-0.5	-10.3, 10.4	0.93	6.9	-3.2, 18.1	0.19
3		-0.7	-9.4, 9.0	0.89	4.5	-8.8, 19.7	0.52
4		-1.3	-10.5, 8.9	0.79	-0.3	-9.2, 9.6	0.96
	Systolic blood pressure, mmHg ^a	122.6 (15.0)					
1		-0.9	-2.7, 1.0	0.36	0.0	-2.0, 2.0	1.0
2		-3.6	-5.8, -1.4	0.001	-2.6	-4.8, -0.4	0.02
3		-2.2	-4.1, -0.4	0.01	-1.4	-3.3, 0.5	0.15
4		-3.6	-5.7, -1.5	0.001	-3.5	-5.7, -1.4	0.001
	Diastolic blood pressure, mmHg ^a	76.0 (8.1)					

1		-0.9	-2.2, 0.5	0.21	0.4	-1.0, 1.9	0.61
2		-2.3	-3.9, -0.6	0.007	-1.1	-2.7, 0.5	0.19
3		-1.5	-2.8, -0.1	0.03	-0.4	-1.9, 1.0	0.56
4		-2.2	-3.8, -0.7	0.006	-1.6	-3.2, 0.0	0.05
Heart rate, beats/min ^a	72.7 (12.1)						
1		-1.2	-3.3, 0.9	0.27	1.4	-0.8, 3.6	0.21
2		-1.0	-3.5, 1.5	0.42	1.2	-1.3, 3.7	0.34
3		-1.3	-3.4, 0.8	0.24	1.2	-1.1, 3.4	0.31
4		-1.0	-3.5, 1.5	0.41	1.1	-1.5, 3.6	0.41

^a Mean differences for blood pressures are expressed as mmHg, and for heart rate as beats/min while the remaining results are presented as % difference.

Multiple linear regression models as follows:

Model 1 adjusted for age, sex and source cohort

Model 2 adjusted for age, sex, source cohort, gestational age, birth weight standard deviation score, maternal hypertension or preeclampsia during pregnancy, maternal smoking during pregnancy, parental educational attainment and parental hypertension, diabetes, stroke or myocardial infarction

Model 3 adjusted for age, sex, source cohort, body mass index, height and daily smoking

Model 4 adjusted for age, sex, source cohort, gestational age, birth weight standard deviation score, maternal hypertension or preeclampsia during pregnancy, maternal smoking during pregnancy, parental educational attainment and parental hypertension, diabetes, stroke or myocardial infarction, body mass index, height and daily smoking

Supplementary Table 4. Cardio-metabolic markers of young adults born to mothers with gestational diabetes and normal pre-pregnancy weight compared with controls, comprising offspring of normoglycemic mothers with normal pre-pregnancy weight, and offspring of mothers with gestational diabetes and pre-pregnancy obesity or overweight, compared with controls.

Characteristic/Measure and model	Controls (n=556)	Maternal gestational diabetes, pre- pregnancy BMI < 25kg/m ² (n=115)			Maternal gestational diabetes, pre- pregnancy BMI ≥25kg/m ² (n=71)		
	Mean (SD)	Mean difference ^a	95 % Confidence interval	P value	Mean difference ^a	95 % Confidence interval	P value
Fasting plasma glucose, mmol/l	5.1 (1.1)						
1		1.0	-0.7, 2.7	0.25	2.5	0.3, 4.8	0.03
4		0.4	-1.4, 2.3	0.65	-0.4	-3.1, 2.5	0.80
Fasting serum insulin, mU/l	14.8 (2.6)						
1		6.3	-3.0, 16.5	0.19	26.2	12.7, 41.4	<0.0001
4		9.7	-0.1, 20.4	0.05	11.2	-2.5, 26.9	0.11
Serum testosterone in men, nmol/l	19.7 (1.4)						
1		-5.9	-15.1, 4.3	0.25	-10.3	-20.2, 0.8	0.07
4		-10.6	-20.3, 0.2	0.05	-1.3	-16.1, 16.1	0.87
Serum testosterone in women, nmol/l	1.3 (1.4)						
1		-0.6	-10.7, 10.7	0.92	2.7	-11.1, 18.5	0.72
4		4.1	-8.1, 18.0	0.52	11.8	-7.1, 34.6	0.24

Serum sex hormone binding globulin in men, nmol/l	32.4 (1.5)						
1		-9.6	-19.4, 1.5	0.09	-16.2	-26.2, -4.8	0.007
4		-12.3	-22.6, -0.7	0.04	-6.8	-21.2, 10.4	0.41
Serum sex hormone binding globulin in women, nmol/l	137.3 (2.3)						
1		-32.8	-47.8, -13.4	0.002	-36.5	-55.0, -10.3	0.01
4		-36.2	-52.4, -14.6	0.003	-43.5	-63.3, -12.8	0.01
Serum free fatty acid, mmol/l	0.5 (1.6)						
1		-3.2	-12.1, 6.7	0.51	-0.7	-11.6, 11.6	0.91
4		-5.2	-15.2, 5.8	0.34	-10.0	-22.9, 5.1	0.18
Total cholesterol, mmol/l	4.6 (1.2)						
1		-3.9	-7.5, -0.2	0.04	1.3	-3.4, 6.2	0.60
4		-3.4	-7.5, 0.9	0.12	-2.6	-8.6, 3.4	0.41
HDL cholesterol, mmol/l	1.6 (1.3)						
1		-5.3	-9.5, -0.9	0.02	-8.2	-13.1, -3.0	0.002
4		-4.8	-9.4, 0.1	0.05	-7.1	-13.5, -0.1	0.05
LDL cholesterol, mmol/l	2.6 (1.3)						
1		-3.1	-8.9, 3.1	0.32	5.1	-2.4, 13.2	0.19
4		-2.8	-9.4, 4.3	0.44	-2.8	-12.0, 7.3	0.57

Triglycerides, mmol/l	0.9 (1.6)						
1		-1.1	-9.9, 8.5	0.81	19.8	6.5, 34.8	0.003
4		-2.1	-11.7, 8.4	0.68	8.8	-6.6, 26.7	0.28
Lipoprotein (a) mg/l	95.1 (3.1)						
1		-11.8	-31.2, 13.1	0.32	-29.7	-48.1, -5.1	0.02
4		3.0	-22.5, 37.0	0.84	-24.1	-49.6, 14.5	0.19
Apolipoprotein A1, g/l	1.5 (1.2)						
1		-4.4	-8.0, -0.7	0.02	-4.0	-8.2, 0.5	0.08
4		-3.5	-7.2, 0.3	0.07	-2.8	-7.8, 2.5	0.30
Apolipoprotein B, g/l	0.7 (1.3)						
1		-3.7	-9.0, 1.9	0.19	4.7	-2.3, 12.1	0.19
4		-3.9	-9.3, 1.9	0.18	-0.2	-7.7, 8.0	0.97
Plasma uric acid, μ mol/l	279.7 (1.3)						
1		-3.2	-9.0, 3.0	0.31	8.2	2.7, 13.9	0.003
4		-4.8	-11.3, 2.12	0.17	4.8	-2.0, 12.0	0.17
High-sensitivity C-reactive protein, mg/l	1.0 (3.7)						
1		-19.8	-38.8, 5.0	0.11	10.2	-20.0, 51.7	0.55
4		-15.1	-37.3, 13.8	0.27	-15.9	-44.4, 27.1	0.41

Plasma alanine aminotransferase, U/l	21.1 (1.7)						
1		-1.3	-10.2, 8.4	0.78	5.6	-6.1, 18.8	0.36
4		1.9	-8.3, 13.4	0.72	-1.2	-15.4, 15.4	0.88
Plasma aspartate transaminase, U/l	23.3 (1.4)						
1		0.3	-6.4, 7.4	0.93	-1.4	-9.3, 7.1	0.73
4		4.1	-3.6, 12.4	0.31	3.9	-7.0, 16.1	0.50
Plasma gamma glutamate, U/l	18.0 (1.7)						
1		-0.4	-9.9, 10.1	0.93	14.4	0.9, 29.6	0.04
4		1.8	-8.8, 13.6	0.76	0.5	-14.4, 18.0	0.95
Systolic blood pressure, mmHg ^a	122.6 (15.0)						
1		-2.1	-4.4, 0.2	0.07	0.7	-2.0, 3.5	0.60
4		-3.7	-6.2, -1.3	0.002	-4.4	-7.8, 0.9	0.01
Diastolic blood pressure, mmHg ^a	76.0 (8.1)						
1		-1.9	-3.5, -0.2	0.03	0.6	-1.4, 2.7	0.54
4		-2.6	-4.4, -0.8	0.005	-1.8	-4.4, 0.8	0.17
Heart rate, beats/min ^a	72.7 (12.1)						
1		-0.9	-3.4, 1.6	0.48	-1.6	-4.6, 1.4	0.29

4	-0.9	-3.7, 1.9	0.54	-0.7	-4.8, 3.3	0.72
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^a Mean differences for blood pressures are expressed as mmHg, and for heart rate as beats/min while the remaining results are presented as % difference.

Multiple linear regression models as follows:

Model 1 adjusted for age, sex and source cohort

Model 4 adjusted for age, sex, source cohort, gestational age, birth weight standard deviation score, maternal hypertension or preeclampsia during pregnancy, maternal smoking during pregnancy, parental educational attainment and parental hypertension, diabetes, stroke or myocardial infarction, body mass index, height and daily smoking