

Supplementary Table 1. Mixed-effects models for change in BMI (kg/m²) during 10 years of follow-up from diagnosis of type 1 diabetes in children attending paediatric diabetes clinics in East London

	Body Mass Index			Body Mass Index SDS		
	Model 1	Model 2 [^]	Model 3 ^{^^}	Model 1	Model 2 [^]	Model 3 ^{^^}
Covariates	Mean difference in BMI kg/m², (95% CI)			Mean difference in BMI SDS, (95% CI)		
Duration of diabetes	0.6 [0.5, 0.6]***	0.6 [0.5, 0.6]***	0.6 [0.6, 0.7]***	-0.01 [-0.03, 0.01]	-0.01 [-0.03, 0.01]	-0.01 [-0.01, 0.02]
Age	-	0.5 [0.4, 0.5]***	0.5 [0.4, 0.5]***	-	-0.02 [-0.04, 0.0007]	-0.02 [-0.04, 0.01]
Gender	-			-		
Girl		Reference group	Reference group		Reference group	Reference group
Boy		-0.51 [-1.07, 0.04]	-0.52 [-1.07, 0.04]		-0.05 [-0.23, 0.14]	-0.04 [-0.23, 0.14]
Ethnicity	-			-		
White		Reference group	Reference group		Reference group	Reference group
Mixed-ethnicity		0.3 [-0.8, 1.3]	0.4 [-0.6, 1.5]		0.2 [-0.1, 0.6]	0.3 [-0.1, 0.6]
Somali		-0.2 [-1.3, 0.9]	-0.2 [-1.2, 0.9]		0.04 [-0.3, 0.4]	0.1 [-0.3, 0.4]
Black		1.4 [0.5, 2.3]**	1.6 [0.7, 2.5]***		0.6 [0.3, 0.9]***	0.6 [0.3, 0.9]***
Bangladeshi		0.2 [-0.9, 1.2]	0.3 [-0.7, 1.4]		-0.3 [-0.6, 0.1]	-0.3 [-0.6, 0.1]
Asian		0.2 [-0.6, 0.9]	0.2 [-0.6, 1.0]		-0.1 [-0.4, 0.1]	-0.1 [-0.4, 0.1]
HbA1c	-	-	-0.03 [-0.03, -0.02]***	-	-	-0.007 [-0.008, -0.007]***
N	534			537		
n measures/ child	11 (1-36)			11 (1-36)		

[^] Adjusted for age at diagnosis, gender, ethnicity, diabetes clinic.

^{^^} Additionally adjusted for HbA_{1c}.

* p<0.05, ** p<0.01, *** p<0.001

Supplementary Table 2. Mixed-effects models for change in Systolic and Diastolic Blood Pressure (mmHg and SDS) during 10 years of follow-up from diagnosis of type 1 diabetes in children attending paediatric diabetes clinics in East London

	Systolic Blood Pressure SDS			Diastolic Blood Pressure SDS		
	Model 1	Model 2	Model 3	Model 1	Model 2	Model 3
Covariates:	Mean difference in BP SDS, (95% CI)			Mean difference in BP SDS, (95% CI)		
Duration of diabetes	0.10 [0.08, 0.11]*	0.10 [0.08, 0.12]*	0.10 [0.08, 0.12]*	0.09 [0.07, 0.11]*	0.09 [0.07, 0.11]*	0.09 [0.07, 0.11]*
Age	-	0.02 [-0.002, 0.03]	0.016 [-0.002, 0.033]	-	0.03 [0.02, 0.05]*	0.03 [0.02, 0.05]*
Gender						
Girl		Reference group	Reference group		Reference group	Reference group
Boy		-0.09 [-0.22, 0.05]	-0.09 [-0.22, 0.05]		-0.06 [-0.18, 0.05]	-0.06 [-0.18, 0.05]
Ethnicity	-			-		
White		Reference group	Reference group		Reference group	Reference group
Mixed-ethnicity		-0.03 [-0.28, 0.23]	-0.03 [-0.28, 0.23]		-0.16 [-0.37, 0.06]	-0.16 [-0.37, 0.06]
Somali		-0.18 [-0.46, 0.10]	-0.18 [-0.46, 0.10]		-0.21 [-0.45, 0.03]	-0.21 [-0.45, 0.03]
Black		0.30 [0.09, 0.50]**	0.30 [0.09, 0.50]**		-0.09 [-0.27, 0.08]	-0.09 [-0.27, 0.08]
Bangladeshi		-0.15 [-0.37, 0.08]	-0.15 [-0.37, 0.08]		-0.08 [-0.28, 0.11]	-0.08 [-0.28, 0.11]
Asian		-0.02 [-0.22, 0.18]	-0.02 [-0.21, 0.18]		-0.04 [-0.20, 0.13]	-0.04 [-0.20, 0.13]
HbA1c	-	-	-0.0001 [-0.002, 0.002]	-	-	-0.001 [-0.001, 0.002]
N	439			439		
n measures/ child	8 (1-33)			8 (1-33)		

[^] Adjusted for age at diagnosis, gender, ethnicity, diabetes clinic

^{^^} Additionally adjusted for HbA_{1c}.

* $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$

Supplementary Table 3 Mixed-effects models for change in Lipids (mmol/L) during 10 years of follow-up from diagnosis of type 1 diabetes in children attending paediatric diabetes clinics in East London

	Total Cholesterol			Low Density Lipoprotein			High Density Lipoprotein			Triglycerides [†]		
	Model 1	Model 2 [^]	Model 3 ^{^^}	Model 1	Model 2 [^]	Model 3 ^{^^}	Model 1	Model 2 [^]	Model 3 ^{^^}	Model 1	Model 2 [^]	Model 3 ^{^^}
Covariates:	Mean difference in TC mmol/L, (95% CI)			Mean difference in LDL mmol/L, (95% CI)			Mean difference in HDL mmol/L, (95% CI)			Mean difference in Triglycerides mmol/L, (95% CI)		
Duration of diabetes	0.05 [0.03, 0.06]***	0.04 [0.02, 0.06]***	0.05 [0.03, 0.06]***	0.02 [0.01, 0.04]**	0.02 [0.01, 0.03]*	0.02 [0.01, 0.04]**	0.03 [0.02, 0.04]***	0.03 [0.02, 0.04]***	0.03 [0.02, 0.04]***	-0.003 [0.00, 0.20]	0.01 [-0.01, 0.02]	0.01 [-0.01, 0.02]
Age	-	-0.009 [-0.028, 0.011]	-0.013 [-0.03, 0.01]	-	0.001 [-0.02, 0.02]	-0.04 [-0.02, 0.02]	-	-0.003 [-0.01, 0.01]	-0.003 [-0.01, 0.01]	-	0.01 [0.003, 0.02]	0.01 [0.05, 0.02]
Gender	-			-			-			-		
Girl		Reference	Reference		Reference	Reference		Reference	Reference		Reference	Reference
Boy		-0.08 [-0.2, 0.1]	0.06 [-0.2, 0.1]		-0.9 [-0.23, 0.04]	-0.08 [-0.22, 0.05]		0.03 [-0.03, 0.10]	0.03 [-0.04, 0.10]		0.05 [-0.04, 0.13]	0.04 [-0.05, 0.12]
Ethnicity	-			-			-			-		
White		Reference	Reference		Reference	Reference		Reference	Reference		Reference	Reference
Mixed-ethnicity		-0.10 [-0.4, 0.2]	-0.15 [-0.4, 0.1]		-0.12 [-0.36, 0.12]	-0.16 [-0.40, 0.08]		0.01 [-0.11, 0.14]	0.02 [-0.11, 0.14]		0.07 [-0.10, 0.20 -0.10]	0.11 [-0.03, 0.24]
Somali		-0.18 [-0.5, 0.1]	-0.23 [-0.5, 0.1]		-0.16 [0.42, 0.10]	-0.18 [-0.44, 0.07]		0.01 [-0.13, 0.14]	0.01 [-0.13, 0.14]		0.10 [-0.08, 0.24]	0.13 [-0.03, 0.26]
Black		-0.08 [-0.3, 0.2]	-0.15 [-0.4, 0.1]		-0.04 [-0.24, 0.17]	-0.08 [-0.28, 0.13]		0.01 [-0.09, 0.12]	0.02 [-0.09, 0.13]		0.14 [0.01, 0.25]*	0.18 [0.06, 0.28]*
Bangladeshi		0.43 [0.2, 0.7]**	0.38 [0.1, 0.6]**		0.33 [0.10, 0.57]**	0.30 [0.07, 0.52]*		0.004 [-0.12, 0.12]	0.004 [-0.11, 0.12]		-0.12 [-0.30, 0.04]	-0.07 [-0.24, 0.07]
Asian		-0.04 [-0.3, 0.2]	-0.04 [-0.3, 0.2]		-0.02 [-0.22, 0.18]	-0.02 [-0.22, 0.18]		-0.06 [-0.16, 0.04]	-0.06 [-0.16, 0.04]		-0.06 [-0.21, 0.08]	-0.04 [-0.19, 0.09]
HbA1c	-	-	0.009 [0.006, 0.01]	-		0.004 [0.002, 0.006]***	-		-0.01 [-0.02, 0.01]	-	-	-0.006 [-0.008, -0.004]
N	367			356			361			358		
n measures/ child	3 (1-11)			3 (1-11)			3 (1-11)			3 (1-11)		

† Exponential of logged outcomes, expressed as percentage change from baseline
[^] Adjusted for age at diagnosis, gender, ethnicity, diabetes clinic
^{^^} Additionally adjusted for HbA1c
* p<0.05, ** p<0.01, *** p<0.001

Supplementary Table 4. Mixed-effects models for change in cardiovascular disease risk factors during 10 years of follow-up from diagnosis of type 1 diabetes in children >12 years of age attending paediatric diabetes clinics in East London

	Systolic BP SDS	Diastolic BP SDS	Total Cholesterol	LDL	HDL	Triglycerides [†]
Covariates:						
Duration of diabetes	0.07 [0.04, 0.10]***	0.07 [0.04, 0.10]***	0.02 [-0.02, 0.06]	0.02 [-0.01, 0.05]	0.01 [-0.01, 0.02]	-0.001 [-0.03, 0.02]
Age	0.002 [-0.03, 0.03]	0.02 [-0.01, 0.05]	-0.02 [-0.06, 0.03]	0.01 [-0.03, 0.04]	-0.01 [-0.03, 0.004]	0.01 [-0.02, 0.03]
Gender						
Girl	Reference	Reference	Reference	Reference	Reference	Reference
Boy	-0.12 [-0.29, 0.04]	-0.03 [-0.17, 0.11]	-0.17 [-0.36, 0.02]	-0.13 [-0.29, 0.04]	-0.01 [-0.10, 0.08]	0.07 [-0.06, 0.17]
Ethnicity						
White	Reference	Reference	Reference	Reference	Reference	Reference
Mixed-ethnicity	-0.12 [-0.44, 0.20]	-0.12 [-0.40, 0.16]	-0.23 [-0.60, 0.15]	-0.18 [-0.50, 0.14]	-0.10 [-0.27, 0.07]	0.06 [-0.19, 0.25]
Somali	-0.33 [-0.70, 0.04]	-0.23 [-0.55, 0.09]	-0.48[-0.89, -0.06]*	-0.35 [-0.70, -0.01]*	-0.07 [-0.26, 0.12]	0.15 [-0.11, 0.34]
Black	0.24 [-0.01, 0.49]	-0.17 [-0.38, 0.03]	-0.36 [-0.64, -0.08]*	0.19 [-0.44, 0.05]	0.05 [-0.08, 0.18]	0.22 [0.07, 0.35]**
Bangladeshi	-0.28 [-0.56, -0.01] *	-0.10 [-0.34, 0.13]	0.55 [0.25, 0.85]***	0.42 [0.15, 0.68]**	0.03 [-0.11, 0.19]	-0.08 [-0.31, 0.11]
Asian	-0.09 [-0.32, 0.13]	-0.03 [-0.23, 0.17]	-0.01 [-0.27, 0.25]	0.03 [-0.20, 0.26]	-0.09 [-0.21, 0.03]	-0.01 [-0.12, 0.21]
HbA1c	0.0003 [-0.002, 0.003]	0.002 [-0.0003, 0.004]	0.011 [0.008, 0.014]***	0.005 [0.003, 0.008]***	0.0004 [-0.0008, 0.001]	-0.005 [-0.007, -0.003,]***
Height	-	-	-	-	-	-
N children included	298	298	237	228	234	230
n measures per child	6 (1-25)	6 (1-25)	2 (1-8)	2 (1-8)	2 (1-8)	2 (1-8)
[†] Exponential of logged outcomes, expressed as percentage change from baseline All models adjusted for age at diagnosis, gender, ethnicity, diabetes clinic and HbA1c * p<0.05, ** p<0.01, *** p<0.001						