

SUPPLEMENTARY DATA

Supplementary Table S1. Longitudinal association of baseline and time-dependent predictors with traditional cardiovascular risk factors during DCCT/EDIC, individual associations

		Traditional Cardiovascular Risk Factors								
		BMI Men (kg/m ²)	BMI Women (kg/m ²)	Systolic BP (mm Hg)	Diastolic BP (mm Hg)	Pulse Pressure (mm Hg)	Pulse Rate (bpm)	Triglycerides (mg/dl)*	HDL (mg/dl)	LDL (mg/dl)
Protocol-dictated	Intensive vs. Conventional						-3.05			
	Primary vs. Secondary			-3.57		-6.53	-2.97	-2.86	3.18	
Physical	Men vs. Women	---	---	11.08	14.23	3.32	-7.41	5.67	-16.60	
	Age (yr)	3.24	-2.93	9.83		14.34	-5.24		3.85	4.42
Behavioral	Adult vs. Adolescent			4.21		5.88	-4.32	-5.27	4.84	
	Weight (kg) Men†	---	---	14.81	19.72	3.05		13.76	-28.51	3.72
	Weight (kg) Women†	---	---		-8.05		7.94	4.44	3.50	6.18
	BMI (kg/m ²) Men†	---	---	14.99	19.92	3.10		13.60	-28.47	4.06
	BMI (kg/m ²) Women†	---	---		-7.83		7.64	4.28	2.87	5.99
	Smoker vs. Non-smoker†	-10.63	-10.32	-5.74	-4.37	-2.78	4.38	3.65	-7.27	5.83
	Occasional vs. Non-drinker†		-3.60		4.01	-2.90		-3.09	5.37	
	Regular vs. Non-drinker†		-4.13	5.98	8.77		-3.22		19.21	-3.71
	Moderate vs. Sedentary†	-8.31	-7.53				-4.61	-4.90	5.84	
	Strenuous vs. Sedentary†	-7.71	-3.96				-4.53	-4.59	6.58	
Family History	Family hx of Hypertension		3.03	4.34	3.65	2.84	3.35			
	Family hx of Type 2 Diabetes							2.73		2.50
Blood pressure	Systolic BP (mm Hg)†	9.62	15.61	---	122.22	---	15.14	14.55	5.00	12.38
	Diastolic BP (mm Hg)†	16.07	8.16	123.32	---	---	13.59	12.33		18.48
Pulse	Rate (bpm)†	10.17		15.26	11.74	8.09	---	14.29		11.00
Lipid	Triglycerides (mg/dl)†	19.42	17.45	15.42	13.45	7.62	15.33	---	-35.27	35.29
	LDL cholesterol (mg/dl)†	6.56	13.73	12.58	18.32		11.35	34.80	10.87	---
History	Duration of diabetes (yr)				-3.94	5.84				
	C-peptide (nmol/L), <60 mo					-3.58	-3.87			
	C-peptide (nmol/L), ≥60 mos					3.21				
Glycemia	Current HbA1c (%)†	-19.90	-10.24	-2.75	7.21	-8.44	7.47	26.23	2.51	24.94

Each **cell** represents a single generalized linear mixed model. Individual associations with family history of MI and family history of type 1 diabetes were not significant. Data are t-statistics and shading is based on the maximum absolute value in the table (darker shading indicates a stronger positive or negative association). Only the estimates that were significant at the p=0.01 level are presented in the table.

* Triglyceride values were log transformed.

† Each predictor is entered into the model as a time-dependent covariate.

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Supplementary Table S2. Longitudinal association of baseline and time-dependent predictors with traditional cardiovascular risk factors during DCCT/EDIC, fully adjusted for all other factors

		Traditional Cardiovascular Risk Factors								
		BMI Men (kg/m ²)	BMI Women (kg/m ²)	Systolic BP (kg/m ²)	Diastolic BP (mm Hg)	Pulse Pressure (mm Hg)	Pulse Rate (mm Hg)	Triglycerides (bpm)*	HDL (mg/dl)	LDL (mg/dl)
Protocol-dictated	Intensive vs. Conventional		5.93							
Physical	Men vs. Women	---	---	8.67	-4.21	8.53	-8.51		2.86	
	Age (yr)	8.97		7.02	-8.69	8.38	-3.32			6.51
	Adult vs. Adolescent				3.93	-3.24		-5.11	3.71	
	Weight (kg) Men†	---	---						-5.11	2.91
	Weight (kg) Women†	---	---	3.07					-5.28	
	BMI (kg/m ²) Men†	---	---					5.24	-4.75	
	BMI (kg/m ²) Women†	---	---					4.84		5.42
Behavioral	Smoker vs. Non-smoker†	-7.17	-6.32	-2.90			4.84	4.76	-12.56	5.53
	Occasional vs. Non-drinker†				4.19				4.44	
	Regular vs. Non-drinker†	4.58		2.74	4.90		-3.17		19.36	-5.19
	Moderate vs. Sedentary†	-3.93	-4.00				-3.78	-3.09	2.96	
	Strenuous vs. Sedentary†						-3.73	-3.56	5.03	
Family History	Family history of Hypertension			3.83		3.08				
	Family history of Type 2 Diabetes	3.50								
Blood pressure	Systolic BP (mm Hg)†	6.39	4.14	---	89.07	---	8.29	7.38	7.46	
	Diastolic BP (mm Hg)†	6.63	5.97	87.97	---	---	4.39			10.91
Pulse	Rate (bpm)†			8.31	4.99	5.85	---	9.08	2.87	5.61
Lipid	Triglycerides (mg/dl)†	16.72	18.83	6.45		5.49	9.72	---	-31.26	25.47
	LDL cholesterol (mg/dl)†	12.79	12.74		10.88		5.68	25.19	21.89	---
History Glycemia	Duration of diabetes (yr)		-5.41							
	Current HbA1c (%)†	-21.61	-14.43	-6.49	5.32	-6.62	5.89	24.77		21.04
Model R-Square		0.97	0.96	0.99	0.99	0.96	0.98	0.98	0.87	0.92

Each **column** represents a single generalized linear mixed model jointly adjusted for all other baseline and time-dependent predictors listed. Models are also adjusted for primary prevention vs. secondary intervention group and C-peptide levels. Data are t-statistics and shading is based on the maximum absolute value in the table (darker shading indicates a stronger positive or negative association). Only the estimates that were significant at the p=0.01 level are presented in the table.

* Triglyceride values were log transformed.

† Each predictor is entered into the model as a time-dependent covariate

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Supplementary Table S3. Number of participants evaluated every two years during DCCT/EDIC

Treatment Group	DCCT (0-9) EDIC (10-28) Study Year														
	DCCT					EDIC									
	Baseline	2	4	6	8	10	12	14	16	18	20	22	24	26	28
Conventional	730	726	685	351	131	667	658	648	645	636	613	606	583	584	585
Intensive	711	703	669	378	142	663	657	645	649	641	625	620	615	623	609

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Supplementary Figure S1. HDL cholesterol during DCCT/EDIC by original assignment to intensive or conventional treatment during DCCT. Data are means \pm standard errors at each DCCT/EDIC follow-up year (black lines = conventional treatment; grey lines = intensive treatment). The average means over time are presented in Table 1.

