

SUPPLEMENTARY DATA

Supplementary Table S1. Association between the IC biomarkers and the risk of CAD in unadjusted, minimally adjusted and final adjusted Cox models.

	Unadjusted		Adjusted for Age and HbA1c		Final Models*	
	HR (95% CI)**	p-value	HR (95% CI)**	p-value	HR (95% CI)**	p-value
DCCT Baseline (91 events, n=518)						
AGE-LDL-IC mg/L	1.32 (1.06,1.64)	0.015	1.29 (1.03,1.61)	0.026	1.21 (0.96,1.52)	0.111
MDA-LDL-IC mg/L	1.30 (1.05,1.62)	0.016	1.32 (1.06,1.64)	0.014	1.25 (0.99,1.57)	0.054
oxLDL-IC mg/L	1.50 (1.15,1.94)	0.002	1.48 (1.14,1.90)	0.003	1.35 (1.03,1.77)	0.032
DCCT Closeout (84 events, n=500)						
AGE-LDL-IC mg/L	1.31 (1.06,1.62)	0.011	1.26 (1.02,1.54)	0.029	1.04 (0.82,1.32)	0.757
MDA-LDL-IC mg/L	1.34 (1.07,1.69)	0.011	1.34 (1.06,1.69)	0.014	1.17 (0.93,1.47)	0.194
oxLDL-IC mg/L	1.59 (1.23,2.04)	<0.001	1.49 (1.17,1.91)	0.001	1.20 (0.92,1.58)	0.178
All measurements (91 events, n=518)						
AGE-LDL-IC mg/L	1.37 (1.13,1.67)	0.002	1.31 (1.06,1.61)	0.012	1.17 (0.95,1.45)	0.139
MDA-LDL-IC mg/L	1.33 (1.07,1.66)	0.010	1.32 (1.05,1.66)	0.019	1.20 (0.95,1.50)	0.122
oxLDL-IC mg/L	1.58 (1.26,1.99)	<0.001	1.49 (1.18,1.87)	0.001	1.28 (1.02,1.60)	0.031

* Adjusted for age, mean HbA1c, cohort, sex, mean BPS, pulse, (log) triglycerides, mean LDL, (log) AER and duration of T1D

**Per 1 unit increase in the log transformed biomarker value. The hazard ratio per (say) a 25% increase in the biomarker (or equivalently, a 1.25 fold change) is given by $HR^{\log(1.25)}$, where “^” denotes the “to the power of”. Biomarkers are noted amount per mg of apolipoprotein B contained in the IC, using serum total ApoB/L

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Supplementary Table S2. AUC comparisons between various baseline models with and without LDL and OxLDL IC for the four CVD outcomes.

	AUC				Difference in AUC		
	M0	M1	M2	M3	M1 vs. M0	M2 vs. M0	M3 vs. M1
Any-CVD	0.688	0.704	0.701	0.713	-0.011, 0.042	-0.012, 0.039	-0.010, 0.028
MACCE	0.724	0.727	0.736	0.739	-0.017, 0.024	-0.021, 0.045	-0.019, 0.043
MI	0.714	0.718	0.734	0.739	-0.020, 0.028	-0.022, 0.061	-0.019, 0.059
CAD	0.676	0.694	0.695	0.707	-0.011, 0.045	-0.009, 0.047	-0.09, 0.035

M0 = model adjusted for age, HbA1c, AER, sex, SBP, pulse, duration of T1D, cohort and triglycerides.

M1 = M0 + LDL.

M2 = M0 + OxLDL IC.

M3 = M0 + LDL + OxLDL IC (final model).

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Supplementary Figure S1. Risk gradients showing the linearity of the log hazard rate for any-CVD (first row), MACCE (second row), CAD (third row) and MI (no strokes) as a function of the log of the three IC biomarkers (columns).

