

SUPPLEMENTARY DATA

**Supplementary Table 1.** Complications status and risk factor profile at last clinical visit for youth onset cohorts matched 1:1 for age of diagnosis

	Type 2 Diabetes	Type 1 Diabetes	p-value
N	354	354	
Duration of diabetes (yrs)	11.6 [4.5-22.6]	14.0 [7.3-22.2]	0.06
Ethnicity			
Anglo-Celtic n (%)	97 (28.1)	264 (76.3)	<0.0001
Mediterranean(%)	12.8	11.6	
Arabic(%)	6.4	2.0	
SE Asian(%)	15.4	1.4	
E Asian(%)	8.7	2.0	
Aborigine(%)	13.6	1.7	
Islander(%)	2.6	0.6	
Other(%)	12.5	4.3	
BMI Kg/m <sup>2</sup>	32.2 ± 7.6	25.9 ± 4.3	0.0001
eGFR	98 ± 39.2	93 ± 32	0.3
Retinopathy n(%)	131(37)	141(40)	0.5
Albuminuria n(%)	137 (47.4)	38 (13.1)	<0.0001
ACR mg/mmol	2.2 [0.8-12.8]	0.7 [0.4-1.5]	<0.0001
VPT Z score	2.3 ± 1.3	1.8 ± 1.3	<0.0001
Stroke n(%)	13 (4.3)	2 (0.6)	0.002
IHD n(%)	38 (12.6)	5 (1.6)	<0.0001
Any Macrovascular Disease n(%)	46 (14.4)	14 (4.2)	<0.0001
Updated HbA1c (%)	8.16 ± 1.6	8.16 ± 1.6	1.0
Antihypertensive Treatment n (%)	148 (49.3)	72 (24.6)	<0.0001
Systolic BP (mm Hg)	126 ± 17	122 ± 17	0.02
Diastolic BP (mm Hg)	78± 10	75 ± 9	<0.0001
Statin treatment n (%)	114 (38.3)	66 (22.5)	<0.0003
Cholesterol (mmol/L)	5.2 ± 1.5	4.9 ± 1.2	0.007
Triglycerides (mmol/L)	1.9 [1.3-3.0]	1.0 [0.7-1.5]	<0.0001
HDL (mmol/L)	1.2 ± 0.4	1.5 ± 0.4	<0.0001
LDL (mmol/L)	3.0 ± 1.1	2.8 ± 0.9	0.2
Ever smoked n(%)	126 (39)	141 (44)	0.2
Pack Years	12 [6-22]	12 [10-20]	0.4

**Data are mean±SD or median [IQR] unless otherwise specified**

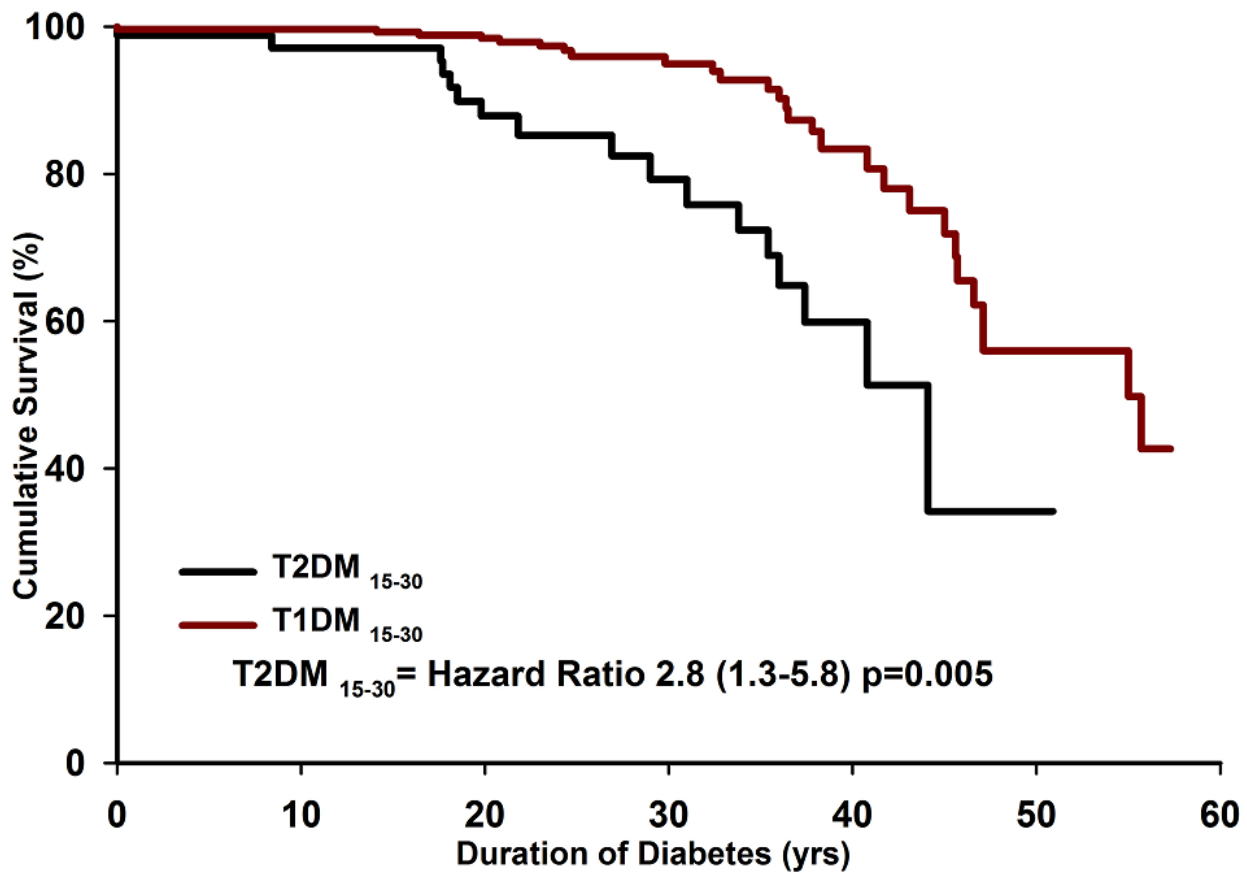
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**Supplementary Table 2. Causes of Death**

	<b>Type 2 Diabetes</b>	<b>Type 1 Diabetes</b>
n	354	470
Primary cause of death available for analysis (n)	28	23
Causes of Death n (%)		
Ischaemic/ vascular	14 (50.0)	7 (30.4)
Malignant neoplasm	2 (7.1)	3 (13.0)
Endocrine	6 (21.4)	12 (52.2)
Alcohol related	1 (3.6)	
Disease of the nervous System	1 (3.6)	
Congenital Malformation Syndrome	1 (3.6)	
Car accident	1 (3.6)	
Accidental respiratory blockage	1 (3.6)	
Accidental poisoning	1 (3.6)	
Diseases of the Digestive System		1 (4.3)

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Supplementary Figure 1. Kaplan Meier Curve for Anglo-Celtic only



	0	5	10	15	20	25	30	>30
T2DM <sub>15-30</sub>	97	91	81	67	47	38	28	22
T1DM <sub>15-30</sub>	358	345	324	282	235	166	115	79

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**Supplementary Figure 2.** Plot of retinopathy prevalence by duration of diabetes for T2DM<sub>15-30</sub> (n=354) and T1DM<sub>15-30</sub> (n=470) primary cohorts to show equivalent duration of diabetes at a zero prevalence of retinopathy, suggesting no difference in the time to diagnosis between the two groups

