

SUPPLEMENTARY DATA

Supplementary Table 1. Cumulative incidence of any retinopathy, preproliferative retinopathy, sight threatening maculopathy or proliferative retinopathy in patients with no retinopathy at baseline: life tables

Time from entry (years)	Nonproliferative retinopathy				Preproliferative retinopathy				Sight threatening maculopathy				Proliferative retinopathy			
	N	n	Cumulative incidence (%)	95% CI	N	n	Cumulative incidence (%)	95% CI	N	n	Cumulative incidence (%)	95% CI	N	n	Cumulative incidence (%)	95% CI
1	11762	168	1.5	1.3-1.7	11762	11	0.1	0.1-0.2	11762	1	0.01	0.00-0.06	11762	1	0.01	0.00-0.06
2	11242	1114	12.2	11.6-12.8	11347	73	0.8	0.7-1.0	11353	10	0.11	0.06-0.19	11353	12	0.13	0.07-0.22
3	8130	674	20.0	19.3-20.9	8931	63	1.6	1.3-1.9	8969	11	0.24	0.16-0.37	8969	12	0.27	0.18-0.41
4	6235	636	28.9	28.0-29.9	7256	70	2.6	2.3-3.0	7314	17	0.50	0.36-0.69	7313	19	0.56	0.42-0.76
5	4561	409	35.9	34.8-37.0	5758	70	4.0	3.5-4.4	5825	5	0.59	0.44-0.80	5823	6	0.68	0.51-0.90
6	3417	368	43.3	42.1-44.5	4568	80	5.8	5.2-6.4	4645	7	0.76	0.57-1.01	4643	9	0.89	0.68-1.16
7	2585	293	50.3	49.0-51.6	3718	101	8.7	7.9-9.5	3814	7	0.97	0.73-1.27	3812	9	1.15	0.89-1.48
8	1846	181	55.7	54.3-57.0	2788	57	10.8	9.8-11.8	2909	3	1.08	0.82-1.42	2906	3	1.27	0.98-1.63
9	1339	172	61.9	60.4-63.3	2138	59	13.5	12.4-14.7	2258	0	1.08	0.82-1.42	2257	1	1.32	1.02-1.70
10	944	97	66.1	64.6-67.7	1621	48	16.4	15.1-17.8	1729	2	1.21	0.91-1.61	1728	3	1.51	1.16-1.97
11	693	84	70.7	69.1-72.3	1195	38	19.4	17.9-21.1	1276	1	1.30	0.97-1.75	1275	3	1.78	1.34-2.36
12	476	72	75.6	73.9-77.2	876	38	23.5	21.5-25.5	943	3	1.67	1.19-2.35	941	4	2.27	1.68-3.08
13	318	39	79.0	77.2-80.7	603	23	27.0	24.7-29.4	647	0	1.67	1.19-2.35	647	0	2.27	1.68-3.08
14	205	37	83.3	81.4-85.1	382	15	30.4	27.7-33.3	417	0	1.67	1.19-2.35	417	0	2.27	1.68-3.08
15	115	22	87.3	85.2-89.2	242	9	33.8	30.5-37.3	270	0	1.67	1.19-2.35	270	1	2.76	1.80-4.22
16	49	12	91.5	88.9-93.7	120	7	39.7	34.7-45.1	130	0	1.67	1.19-2.35	130	0	2.76	1.80-4.22
17	11	1	92.9	89.3-95.7	30	1	43.6	35.3-52.9	32	0	1.67	1.19-2.35	32	0	2.76	1.80-4.22

N number at risk at start of year. n new cases diagnosed during year. CI confidence interval

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Supplementary Table 2. Cumulative incidence of preproliferative retinopathy, maculopathy or sight threatening diabetic retinopathy in patients with nonproliferative retinopathy at baseline: life tables

Time from entry (years)	Preproliferative retinopathy				Sight threatening maculopathy				Proliferative retinopathy			
	N	n	Cumulative incidence (%)	95% CI	N	n	Cumulative incidence (%)	95% CI	N	n	Cumulative incidence (%)	95% CI
1	2284	25	1.1	0.8-1.7	2266	4	0.18	0.07-0.48	2266	6	0.27	0.12-0.61
2	2125	100	6.4	5.4-7.6	2121	20	1.27	0.85-1.89	2120	24	1.58	1.10-2.25
3	1500	79	11.9	10.5-13.6	1531	19	2.65	1.96-3.57	1528	20	3.03	2.29-3.99
4	1108	59	17.2	15.4-19.3	1168	11	3.69	2.82-4.83	1166	14	4.35	3.40-5.57
5	798	50	23.0	20.7-25.6	871	12	5.20	4.05-6.67	870	14	6.10	4.85-7.66
6	576	44	29.5	26.8-32.5	648	7	6.36	4.99-8.09	645	7	7.25	5.80-9.05
7	425	52	39.5	36.1-43.1	495	6	7.71	6.05-9.79	493	7	8.82	7.05-11.0
8	260	32	47.8	43.9-52.0	331	3	8.69	6.78-11.1	329	4	10.1	8.04-12.7
9	171	6	49.9	45.8-54.2	230	2	9.60	7.42-12.4	228	2	11.0	8.69-13.9
10	128	7	53.1	48.6-57.7	168	0	9.60	7.42-12.4	167	0	11.0	8.69-13.9
11	86	8	57.9	52.8-63.1	115	0	9.60	7.42-12.4	114	0	11.0	8.69-13.9
12	62	5	61.6	56.0-67.3	85	0	9.60	7.42-12.4	84	0	11.0	8.69-13.9
13	46	4	65.4	59.2-71.6	65	0	9.60	7.42-12.4	65	1	12.6	9.15-17.3
14	30	4	71.3	63.8-78.4	45	0	9.60	7.42-12.4	45	0	12.6	9.15-17.3
15	13	0	71.3	63.8-78.4	24	0	9.60	7.42-12.4	24	0	12.6	9.15-17.3
16	7	0	71.3	63.8-78.4	12	0	9.60	7.42-12.4	12	0	12.6	9.15-17.3
17	1	0	71.3	63.8-78.4	2	0	9.60	7.42-12.4	2	0	12.6	9.15-17.3

N number at risk at start of year. n new cases diagnosed during year. CI confidence interval

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Supplementary Table 3. Incidence rates of retinopathy or maculopathy according to baseline grade

Grade of retinopathy at baseline	Outcome	Person years at risk	No. incident cases	Incidence rate (% per year)	95% CI*
No retinopathy	Preproliferative retinopathy, PDR or maculopathy	57385	763	1.3	1.2-1.4
Nonproliferative	Preproliferative retinopathy, PDR or maculopathy	8434	475	5.6	5.1-6.2
No retinopathy	Proliferative retinopathy or maculopathy	58303	83	0.14	0.11-0.17
Nonproliferative	Proliferative retinopathy or maculopathy	8983	99	1.1	0.90-1.3
Preproliferative	Proliferative retinopathy or maculopathy	768	10	1.3	0.62-2.4

CI confidence interval, * Poisson distribution, PDR proliferative diabetic retinopathy

Supplementary Table 4. Relationship between baseline characteristics and time to proliferative retinopathy or maculopathy (192 cases) among patients with no retinopathy or nonproliferative or preproliferative retinopathy at baseline: Cox regression model

Baseline characteristic	Adjusted hazard ratio	95% CI
Retinopathy at baseline		
No retinopathy	1	
Nonproliferative retinopathy	7.47	5.54-10.1
Preproliferative retinopathy	9.89	5.08-19.2
Age		
< 40	1.10	0.49-2.47
40 - <70	1	
70+	1.15	0.85-1.56
Years since diabetes diagnosed		
< 10	1	
10 - <20	1.93	1.33-2.80
20+	0.71	0.30-1.64
Diabetes treatment at baseline		
Diet only	1	
Oral hypoglycaemics only	1.33	0.83-2.13
Insulin	1.88	1.01-3.51
Hypertension treatment		
No	1	
Yes	0.59	0.47-0.89

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Supplementary Figure 1. Annual incidence, with 95% confidence intervals, of maculopathy or proliferative retinopathy in patients with nonproliferative, preproliferative or no retinopathy at baseline. Follow-up truncated after 12 years because of small numbers (<14 incident cases per year)

