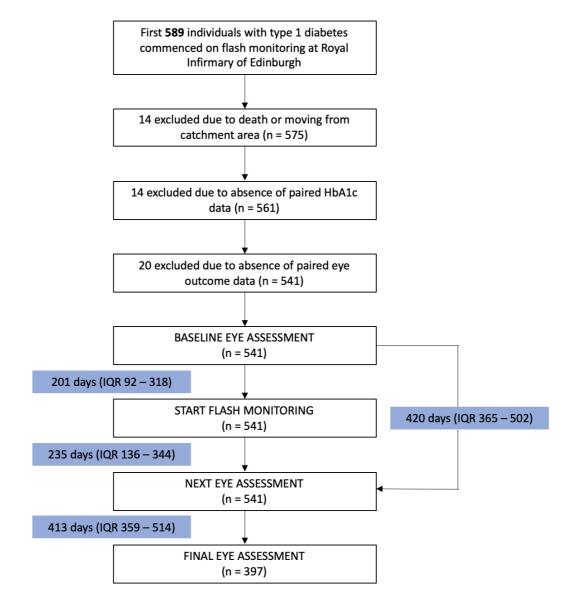
Supplementary figure. Flow chart detailing missing data and follow-up intervals.



Supplementary Table 1. HbA1c and hypoglycaemia data following flash monitoring commencement stratified by HbA1c response. p refers to comparison between HbA1c response groups. Optimal bolus timing refers to people taking bolus insulin at least 15 minutes prior to meals.

	Total cohort	HbA1c fall 10	HbA1c change less	р
	N = 541	mmol/mol (0.9%) or	than -10mmol/mol	
		greater	(0.9%)	
		N = 135	N = 406	
Baseline HbA1c	63 (55 – 72) / 7.9	72 (65 – 83) / 8.7 (8.1 –	61 (53 – 67) /	<0.001
(mmol/mol / %)	(7.2 – 8.7)	9.7)	7.7 (7.0 – 8.3)	
Change in HbA1c	-4 (-9 – 1) / 0.4 (-	-16 (-21 – -12) /	-2 (-5 – 2) /	<0.001
(mmol/mol / %)	0.8 - 0.1)	1.5 (-1.9 – -1.1)	0.2 (-0.5 – 0.2)	
Interval baseline to	384 (260 – 608)	399 (286 – 607)	376 (252 – 606)	0.533
next HbA1c (days)				
Optimal bolus timing	126/350 (36.0%)	40/89 (44.9%)	86/261 (33.0%)	0.042
Severe hypo last year?	40/356 (11.2%)	13/89 (14.6%)	27/267 (10.1%)	0.245
Symptomatic hypo	159/347 (45.8%)	36/89 (40.4%)	123/258 (47.4%)	0.238
more than weekly				
Asymptomatic hypo	101/348 (29.0%)	26/87 (29.9%)	75/261 (28.7%)	0.838
frequency once /				
month or more				
Impaired awareness	45/347 (13.0%)	14/88 (15.9%)	31/259 (12.0%)	0.342
hypoglycaemia?				

Supplementary Table 2. Univariate comparison of clinical features by worsening retinopathy and new-onset retinopathy at final follow-up assessment.

	Worsening retinopathy	No worsening retinopathy	р	New retinopathy	No new retinopathy	p
Male gender	36/72 (50.0%)	174/325 (53.5%)	0.586	27/58 (46.6%)	72/146 (49.3%)	0.721
Age (years)	46 (35 – 62)	46 (34 – 57)	0.585	46 (34 – 60)	47 (32 – 59)	0.983
Age at diagnosis (years)	15 (10 – 25)	19 (11 – 31)	0.103	15 (10 – 26)	26 (15 – 38)	<0.001
Diabetes duration (years)	26 (17 – 37)	23 (12 – 34)	0.028	25 (15 – 37)	14 (8 – 29)	<0.001
Baseline HbA1c (mmol/mol / %)	64 (54 – 74) 8.0 (7.1 – 8.9)	63 (56 – 70) 7.9 (7.3 – 8.6)	0.684	62 (52 – 73) 7.8 (6.9 – 8.8)	61 (55 – 68) 7.7 (7.2 – 8.4)	0.527
Change in HbA1c (mmol/mol / %)	-5 (-12 – 1) -0.5 (-1.1 – 0.1)	-4 (-9 – 0) -0.4 (-0.8 – 0)	0.384	-4 (-12 - 1) -0.4 (-1.1 - 0.1)	-3 (-9 - 1) -0.3 (-0.8 - 0.1)	0.609
HbA1c fall 10mmol/mol (0.9%)	23/72 (31.9%)	80/325 (24.6%)	0.199	17/58 (29.3%)	36/146 (24.7%)	0.494
CSII	22/72 (30.6%)	93/325 (28.6%)	0.743	17/58 (29.3%)	41/146 (28.1%)	0.861
Any retinopathy present at baseline	16/72 (22.2%)	177/325 (54.5%)	<0.001	NA	NA	NA
Any maculopathy present at baseline	16/72 (22.2%)	54/325 (16.6%)	0.259	NA	NA	NA
PRP at baseline	9/72 (12.5%)	39/325 (12.0%)	0.906	NA	NA	NA
Macular laser at baseline	8/72 (11.1%)	17/325 (5.2%)	0.063	NA	NA	NA
Anti-VEGF at baseline	3/72 (4.2%)	5/325 (1.5%)	0.331	NA	NA	NA
Composite at baseline	15/72 (20.8%)	44/325 (13.5%)	0.115	NA	NA	NA
Smoking status	Current 6/65 (9.2%) Ex 17/65 (26.2%) Never 42/65 (64.6%)	Current 35/302 (11.6%) Ex 71/302 (23.5%) Never 196/302 (64.9%)	0.809	Current 4/52 (7.7%) Ex 11/52 (21.2%) Never 37/52 (71.2%)	12/137 (8.8%) 37/137 (27.0%) 88/137 (64.2%)	0.660
Albumin status	Macro 5/60 (8.3%) Micro 4/60 (6.7%) None 51/60 (85.0%)	Macro 9/292 (3.1%) Micro 25/292 (8.6%) None 258/292 (88.4%)	0.154	Macro 4/48 (8.3%) Micro 1/48 (2.1%) None 43/48 (89.6%)	Macro 7/132 (5.3%) Micro 11/132 (8.3%) None 114/132 (86.4%)	0.268