

SUPPLEMENTARY DATA

Supplementary Table 1. Change in A1C from baseline by study group.

			Mean difference	Std. Error	P ^a	95% CI ^a
CGM + MDI						
Baseline A1c %	-	A1c 3 M %	0.743	0.144	0.0017	0.208 to 1.278
	-	A1c 6 M %	0.905	0.161	0.0006	0.309 to 1.501
	-	A1c 9 M %	1.181	0.164	<0.0001	0.573 to 1.789
	-	A1c 12 M %	1.229	0.150	<0.0001	0.674 to 1.783
	-	A1c 15 M %	1.186	0.169	<0.0001	0.558 to 1.814
	-	A1c 18 M %	1.124	0.187	0.0003	0.429 to 1.819
	-	A1c 21 M %	1.200	0.176	<0.0001	0.549 to 1.851
	-	A1c 24 M %	1.271	0.176	<0.0001	0.619 to 1.923
	-	A1c 27 M %	1.238	0.184	0.0001	0.495 to 1.981
	-	A1c 30 M %	1.181	0.192	0.0004	0.404 to 1.958
	-	A1c 33 M %	1.186	0.199	0.0006	0.382 to 1.989
	-	A1c 36 M %	1.229	0.189	0.0002	0.466 to 1.992
SAP						
Baseline A1c %	-	A1c 3 M %	0.784	0.109	<0.0001	0.392 to 1.176
	-	A1c 6 M %	0.872	0.127	<0.0001	0.415 to 1.329
	-	A1c 9 M %	1.036	0.133	<0.0001	0.554 to 1.518
	-	A1c 12 M %	1.208	0.129	<0.0001	0.741 to 1.675
	-	A1c 15 M %	1.108	0.168	<0.0001	0.502 to 1.714
	-	A1c 18 M %	1.288	0.178	<0.0001	0.646 to 1.930
	-	A1c 21 M %	1.132	0.170	<0.0001	0.519 to 1.745
	-	A1c 24 M %	1.240	0.147	<0.0001	0.708 to 1.772
	-	A1c 27 M %	1.228	0.163	<0.0001	0.590 to 1.866
	-	A1c 30 M %	1.236	0.184	<0.0001	0.513 to 1.959
	-	A1c 33 M %	1.228	0.196	0.0001	0.460 to 1.996
	-	A1c 36 M %	1.320	0.180	<0.0001	0.613 to 2.027
SMBG + CSII						
Baseline A1c %	-	A1c 3 M %	0.400	0.180	1.0000	-0.333 to 1.133
	-	A1c 6 M %	0.405	0.190	1.0000	-0.368 to 1.178
	-	A1c 9 M %	0.400	0.164	1.0000	-0.267 to 1.067
	-	A1c 12 M %	0.592	0.131	0.0183	0.0579 to 1.127
	-	A1c 15 M %	0.515	0.146	0.1778	-0.0813 to 1.111
	-	A1c 18 M %	0.565	0.206	1.0000	-0.276 to 1.406
	-	A1c 21 M %	0.530	0.190	0.9125	-0.245 to 1.305
	-	A1c 24 M %	0.530	0.192	0.9740	-0.253 to 1.313
	-	A1c 27 M %	0.635	0.221	0.7677	-0.268 to 1.538
	-	A1c 30 M %	0.710	0.215	0.2954	-0.168 to 1.588
	-	A1c 33 M %	0.550	0.212	1.0000	-0.313 to 1.413
	-	A1c 36 M %	0.615	0.191	0.3574	-0.166 to 1.396
SMBG + MDI						
Baseline A1c %	-	A1c 3 M %	0.216	0.134	1.0000	-0.291 to 0.723
	-	A1c 6 M %	0.142	0.186	1.0000	-0.560 to 0.844
	-	A1c 9 M %	0.100	0.170	1.0000	-0.543 to 0.743
	-	A1c 12 M %	0.274	0.0964	0.3914	-0.0901 to 0.637
	-	A1c 15 M %	0.132	0.175	1.0000	-0.527 to 0.790
	-	A1c 18 M %	0.316	0.164	1.0000	-0.303 to 0.935
	-	A1c 21 M %	0.295	0.151	1.0000	-0.274 to 0.864
	-	A1c 24 M %	0.300	0.176	1.0000	-0.364 to 0.964
	-	A1c 27 M %	0.305	0.132	1.0000	-0.240 to 0.851
	-	A1c 30 M %	0.353	0.146	1.0000	-0.248 to 0.953
	-	A1c 33 M %	0.384	0.189	1.0000	-0.394 to 1.163
	-	A1c 36 M %	0.268	0.155	1.0000	-0.372 to 0.909

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Supplementary Table 2. Changes in secondary outcomes

	At the baseline	At 1 year	P ₁ *	95% CI	At 2 year	P ₂ *	95% CI	At 3 year	P ₃ *	95% CI
Body weight (kg)										
CGM + MDI	76.6±14	77.2±15	1.0000	-2.356 to 1.118	78.3±16	0.8143	-4.530 to 1.387	78.3±16	1.0000	-4.911 to 1.720
SAP	72.5±15	75.2±9	1.0000	-12.824 to 6.216	75.8±10	1.0000	-13.468 to 5.902	75.9±10	1.0000	-13.061 to 5.369
SMBG + CSII	74±11	73.2±10	1.0000	-1.862 to 2.862	73.8±11	1.0000	-2.322 to 2.185	74.5±11	1.0000	-2.720 to 2.674
SMBG + MDI	73.7±13	73.7±14	0.8099	-3.152 to 0.973	74.2±13	0.5752	-2.644 to 0.675	74.3±13	0.6365	-3.131 to 0.847
The total daily dose of insulin (U)										
CGM + MDI	48.1±15	48.3±14	1.0000	-3.828 to 2.781	48.7±12	1.0000	-5.320 to 3.225	49.7±11	1.0000	-7.424 to 3.329
SAP	46.2±11.5	46.7±12	1.0000	-3.559 to 2.919	46±11	1.0000	-3.300 to 3.940	46.3±10	1.0000	-4.516 to 4.596
SMBG + CSII	50.1±4.4	44.8±11	0.4856	-1.043 to 4.588	44.3±10	0.2793	-0.976 to 6.158	45.7±9	1.0000	-2.610 to 5.792
SMBG + MDI	48.8±13.5	52±14	0.0686	-5.930 to 0.152	51.8±15	0.3119	-6.879 to 1.212	52.8±18	0.7623	-9.851 to 2.962
Relative proportion of bolus insulin (%)										
CGM + MDI	48.7±3.9	52.9±4.6	0.0268	-8.021 to -0.360	52.1±4.2	0.0828	-6.849 to 0.277	51.5±4.4	0.2091	-6.114 to 0.781
SAP	48.7±4	53.3±6.3	0.0400	-8.974 to -0.146	53.1±6.3	0.0602	-8.845 to 0.125	53.3±5.5	0.0152	-8.525 to -0.675
SMBG + CSII	50.1±4.4	49.8±4.2	0.6652	-0.681 to 2.500	50.4±4.4	1.0000	-2.714 to 2.805	49.3±4.4	1.0000	-2.866 to 5.138
SMBG + MDI	50±4.4	50.4±3.7	1.0000	-3.174 to 2.859	51.2±3.9	1.0000	-4.640 to 2.325	48.2±5.4	1.0000	-2.794 to 6.267
No. of boluses/day (n)										
CGM + MDI	3.9±0.9	6.5±1.8	0.0001	-3.914 to -1.305	6.6±1.9	<0.0001	-3.990 to -1.420	6.6±1.9	<0.0001	-4.087 to -1.389
SAP	3.8±0.8	7.3±2	<0.0001	-4.662 to -2.290	7.2±1.9	<0.0001	-4.436 to -2.292	7.1±1.9	<0.0001	-4.282 to -2.246
SMBG + CSII	3.8±0.9	4.8±1.4	0.0555	-2.007 to 0.0160	4.8±1.1	0.0295	-1.935 to -0.0737	4.9±1.2	0.0212	-2.058 to -0.124
SMBG + MDI	3.8±0.7	3.8±0.7	1.0000	-0.552 to 0.531	3.8±0.7	1.0000	-0.523 to 0.566	4.1±0.8	1.0000	-0.778 to 0.273
Frequency of SMBG/day (n)										
CGM + MDI	3.7±1	2.6±0.4	0.0003	0.452 to 1.653	2.7±0.5	0.0007	0.393 to 1.654	2.7±0.5	0.0017	0.333 to 1.676
SAP	3.7±1.2	3.4±1	1.0000	-0.625 to 1.177	3.4±0.9	1.0000	-0.608 to 1.176	3.4±1	1.0000	-0.560 to 1.272
SMBG + CSII	3.8±1.1	3.7±0.8	1.0000	-0.637 to 0.419	3.8±1	1.0000	-0.743 to 0.352	3.7±0.9	1.0000	-0.728 to 0.365
SMBG + MDI	3.6±1	3.6±1.4	1.0000	-0.753 to 0.669	3.8±0.7	1.0000	-0.942 to 0.647	4±1.6	1.0000	-1.274 to 0.590
All patients with Dexcom G4	3.8±1	2.7±0.5	<0.0001	0.649 to 1.576	2.7±0.5	<0.0001	0.654 to 1.584	2.7±0.6	<0.0001	0.648 to 1.633
All patients with Enlite sensor	3.4±1.3	3.9±0.9	1.0000	-1.779 to 0.836	3.9±0.8	1.0000	-1.786 to 0.757	3.9±0.8	1.0000	-1.775 to 0.847
Mean sensor glucose (mmol/L)										
CGM + MDI	10.5±1.4	8.6±1.1	<0.0001	1.369 to 2.612	8.5±1.2	<0.0001	1.388 to 2.803	8.5±1.2	<0.0001	1.233 to 2.805
SAP	10.3±1.5	8.5±1.2	<0.0001	1.080 to 2.440	8.4±1.1	<0.0001	1.022 to 2.762	8.4±1	<0.0001	0.946 to 2.806
SMBG + CSII	10.4±1.6	9.7±1.1	0.008	0.182 to 1.528	9.8±1.2	0.1581	-0.171 to 1.735	9.7±0.9	0.0859	-0.0827 to 1.910
SMBG + MDI	10.4±1.3	10±1.5	0.6758	-0.274 to 0.979	10±1.7	1.0000	-0.593 to 1.224	10±1.4	1.0000	-0.632 to 1.116
Time in range (%) (3.9-10.0 mmol/L)										
CGM + MDI	48.7±9.8	68.1±11	<0.0001	-26.092 to -12.861	69.4±12.1	<0.0001	-28.144 to -13.856	69±12	<0.0001	-27.251 to -13.892
SAP	50.9±11.8	70.6±10	<0.0001	-26.738 to -13.742	72.4±10	<0.0001	-29.664 to -14.416	72.3±9.7	<0.0001	-29.147 to -14.853

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SMBG + CSII	50.6±11.1	57±10.8	0.0042	-11.898 to -1.830	57.4±9.1	0.0096	-12.957 to -1.406	57.8±9.6	0.0114	-14.562 to -1.438
SMBG + MDI	51.8±16.4	54.2±12.2	1.0000	-10.440 to 6.124	55.1±10.5	1.0000	-12.969 to 8.232	54.7±12.3	1.0000	-12.811 to 8.811
Time in hypo (%) (<3.9 mmol/l)										
CGM + MDI	9.4±6.5	5.6±3	0.0110	0.730 to 7.175	5.1±2.8	0.0192	0.522 to 7.763	5.5±2.5	0.0387	0.142 to 7.477
SAP	9.0±5.6	5.7±3.2	0.0081	0.703 to 6.097	4.9±2.5	0.0146	0.628 to 7.692	5.3±2.3	0.0235	0.373 to 7.147
SMBG + CSII	8.9±6.1	6.8±2.8	0.3141	-0.851 to 4.942	6.5±2.9	0.6949	-1.691 to 6.055	6.4±2.9	0.4847	-1.364 to 6.010
SMBG + MDI	8.3±7.3	7.7±4.4	1.0000	-2.588 to 4.483	7.2±4.7	1.0000	-3.891 to 7.154	7.2±4	1.0000	-3.509 to 6.667
SD₇ (mmol/L) (glycemic variability)										
CGM + MDI	4±0.7	3±0.5	<0.0001	0.670 to 1.397	3±0.5	<0.0001	0.701 to 1.375	3±0.5	<0.0001	0.685 to 1.310
SAP	4±0.8	3±0.5	<0.0001	0.535 to 1.546	2.9±0.5	0.0001	0.528 to 1.638	3±0.6	0.0008	0.358 to 1.584
SMBG + CSII	4±0.7	3.4±0.5	0.0001	0.306 to 0.981	3.4±0.5	0.0003	0.285 to 1.074	3.3±0.6	0.0007	0.286 to 1.201
SMBG + MDI	3.9±1	3.7±1	1.0000	-0.320 to 0.678	3.7±0.8	1.0000	-0.327 to 0.685	3.7±0.5	1.0000	-0.455 to 0.760

Values are presented as mean – SD; P values <0.05 are statistically significant. CI, confidence interval. P₁, P₂ and P₃ - for comparison with the baseline; * Bonferroni corrected