

Supplemental Table S1. Patient-reported outcomes. Questionnaire scores, general and subscales, at baseline and after three months of use of the two advanced hybrid closed-loop systems.

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	All			MM780G			Control IQ				
	Baseline	3 months	p	Baseline	3 months	p	Baseline	3 months	p	P‡	P¥
HFS:	78.78 ± 17.57	69.38 ± 18.72	<0.001	76.50 ± 18.22	67.88 ± 18.66	<0.001	81.07 ± 16.70	70.77 ± 18.80	<0.001	0.116	0.530
worry	54.65 ± 15.09	47.36 ± 16.03	<0.001	52.46 ± 15.58	46.40 ± 15.99	<0.001	56.83 ± 14.36	48.32 ± 16.11	<0.001	0.091	0.244
hypoglycaemia avoidant behaviour	17.15 ± 4.32	15.71 ± 3.44	<0.001	17.15 ± 4.06	15.19 ± 3.72	0.001	17.14 ± 4.60	16.22 ± 3.08	0.072	0.865	0.178
hyperglycaemia influenced behaviour	7.44 ± 3.29	6.20 ± 3.09	<0.001	7.17 ± 3.56	6.28 ± 3.06	0.059	7.71 ± 3.00	6.12 ± 3.13	<0.001	0.154	0.212
DDS:	2.74 ± 1.26	2.22 ± 1.07	<0.001	2.25 ± 0.96	1.96 ± 0.90	0.001	3.23 ± 1.34	2.47 ± 1.17	<0.001	<0.001	0.012
emotional burden	3.32 ± 1.51	2.71 ± 1.19	<0.001	2.94 ± 1.32	2.49 ± 1.14	0.004	3.64 ± 1.60	2.90 ± 1.20	<0.001	0.005	0.251
physician distress	2.27 ± 1.57	1.87 ± 1.36	0.003	1.69 ± 1.29	1.57 ± 1.15	0.674	2.76 ± 1.63	2.12 ± 1.48	0.001	<0.001	0.037
regimen distress	2.88 ± 1.39	2.26 ± 1.19	<0.001	2.48 ± 1.10	2.06 ± 1.05	0.001	3.21 ± 1.52	2.44 ± 1.27	<0.001	0.003	0.120
interpersonal distress	2.40 ± 1.45	2.06 ± 1.29	0.002	1.90 ± 1.29	1.74 ± 1.13	0.181	2.82 ± 1.45	2.32 ± 1.36	0.002	<0.001	0.098
DQOL:	100.27 ± 23.49	90.97 ± 22.86	<0.001	96.30 ± 22.05	88.00 ± 19.93	<0.001	104.59 ± 24.40	94.21 ± 25.44	<0.001	0.047	0.503
satisfaction	37.82 ± 9.95	33.28 ± 9.63	<0.001	36.77 ± 9.98	33.09 ± 9.52	<0.001	38.97 ± 9.87	33.47 ± 9.80	<0.001	0.214	0.215
impact	37.13 ± 10.43	34.23 ± 10.06	<0.001	35.64 ± 9.76	32.72 ± 9.17	0.003	38.76 ± 10.95	35.87 ± 10.78	0.002	0.107	0.989
worry: social	14.58 ± 5.27	13.54 ± 5.42	0.002	13.69 ± 4.54	12.72 ± 4.01	0.012	15.56 ± 5.83	14.44 ± 6.53	0.009	0.086	0.830
worry: diabetes	10.99 ± 3.31	9.80 ± 3.59	<0.001	10.72 ± 3.14	9.34 ± 3.18	<0.001	11.29 ± 3.47	10.31 ± 3.95	0.017	0.398	0.461
PSQI	6.94 ± 4.06	6.06 ± 4.05	0.004	6.52 ± 4.56	5.92 ± 4.32	0.215	7.35 ± 3.47	6.21 ± 3.78	0.019	0.109	0.361
> 5 (poor sleep quality) %	57.4	46.3	0.019	49.3	43.8	0.481	65.8	48.6	0.024	0.043	0.558
GME:	3.64 ± 0.52	3.68 ± 0.87	0.621	3.65 ± 0.44	3.74 ± 0.58	0.324	3.64 ± 0.59	3.62 ± 1.08	0.167	0.816	0.502
convenience	3.81 ± 0.61	3.81 ± 0.91	0.899	3.79 ± 0.63	3.61 ± 0.76	0.198	3.83 ± 0.59	3.98 ± 0.99	0.357	0.871	0.062
effectiveness	3.86 ± 0.86	4.24 ± 0.69	<0.001	3.89 ± 0.87	4.20 ± 0.66	0.004	3.83 ± 0.85	4.27 ± 0.72	0.001	0.726	0.443
intrusiveness	2.58 ± 0.82	2.64 ± 1.04	0.482	2.57 ± 0.78	2.48 ± 0.87	0.114	2.60 ± 0.86	2.79 ± 1.16	0.303	0.903	0.064
INSPIRE	70.84 ± 14.01	74.42 ± 15.15	0.032	69.74 ± 12.59	74.00 ± 15.93	0.070	72.15 ± 15.53	74.92 ± 14.29	0.220	0.330	0.649
Clarke score	2.27 ± 1.88	1.74 ± 1.60	<0.001	2.07 ± 1.78	1.76 ± 1.70	0.023	2.47 ± 1.96	1.72 ± 1.51	<0.001	0.238	0.044

n = 150. HFS (Hypoglycaemia Fear Survey): lower scores indicating less fear of hypoglycemia. DDS (Diabetes Distress Scale): lower scores indicate less diabetes-related distress. DQoL (Diabetes Quality of Life): lower scores indicate a better quality of life. PSQI (Pittsburgh Sleep Quality Index): lower scores indicate better sleep quality. GME (Glucose Monitoring Experience Questionnaire): lower scores indicate less satisfaction with the monitoring system. INSPIRE (INSPIRE measures) lower scores indicate lower expectancies. > 90% questionnaire response. ‡p baseline MM780G vs. Control IQ. ¥p 3 months MM780G vs. Control IQ. Data are expressed as mean \pm standard deviation unless otherwise indicated.