Supplementary Table 1. HbA1c Outcomes in Subgroups

		Randon Mean		with no s	eased 0.5% evere hypo	Randomiz week Mear	e [†] from cation to 26 is (%) i ± SD	<7.	veek HbA1c 0%
	\mathbf{N}^{*}	CGM	Control	CGM	Control	CGM	Control	CGM	Control
Overall	69/68	7.9 ± 0.8	7.9 ± 0.8	13 (19%)	19 (28%)	-0.1 ± 0.6	-0.1 ± 0.6	11 (16%)	10 (15%)
Age -yr									
4-5	18/15	8.0 ± 0.8	8.0 ± 0.9	5 (28%)	4 (27%)	-0.2 ± 0.6	0.0 ± 0.7	6 (33%)	2 (13%)
6-7	22/21	7.8 ± 0.9	7.7 ± 0.5	3 (14%)	6 (29%)	0.0 ± 0.5	-0.2 ± 0.7	2 (9%)	4 (19%)
8-9	29/32	7.9 ± 0.8	7.9 ± 0.8	5 (17%)	9 (28%)	-0.1 ± 0.8	0.0 ± 0.6	3 (10%)	4 (13%)
Gender									
Female	31/31	8.0 ± 0.8	7.9 ± 0.6	5 (16%)	8 (26%)	-0.2 ± 0.7	-0.1 ± 0.7	5 (16%)	5 (16%)
Male	38/37	7.9 ± 0.8	7.9 ± 0.9	8 (21%)	11 (30%)	0.0 ± 0.6	-0.1 ± 0.5	6 (16%)	5 (14%)
Race/Ethnicity [‡]									
White	51/55	8.0 ± 0.8	7.9 ± 0.8	9 (18%)	17 (31%)	-0.1 ± 0.7	-0.1 ± 0.7	6 (12%)	7 (13%)
Other	18/12	7.7 ± 0.8	7.8 ± 0.7	4 (22%)	2 (17%)	-0.1 ± 0.5	0.0 ± 0.5	5 (28%)	2 (17%)
Insulin Modality [§]									
Pump	39/47	7.7 ± 0.6	7.8 ± 0.7	10 (26%)	12 (26%)	-0.1 ± 0.6	-0.1 ± 0.6	7 (18%)	8 (17%)
MDI	26/19	8.3 ± 0.9	8.1 ± 0.9	2 (8%)	7 (37%)	0.0 ± 0.7	0.0 ± 0.7	3 (12%)	1 (5%)
Baseline HbA1c (%)									
<8.0	41/42	7.4 ± 0.4	7.4 ± 0.4	5 (12%)	7 (17%)	0.0 ± 0.5	$\pm 0.1 \pm 0.6$	10 (24%)	9 (21%)
≥ 8.0	28/26	8.7 ± 0.6	8.6 ± 0.5	8 (29%)	12 (46%)	-0.3 ± 0.8	-0.3 ± 0.7	1 (4%)	1 (4%)
BMI Z score									
< 0.5	27/31	7.9 ± 0.7	7.7 ± 0.7	4 (15%)	9 (29%)	0.1 ± 0.5	-0.1 ± 0.6	2 (7%)	6 (19%)
≥0.5	42/37	7.9 ± 0.8	8.0 ± 0.8	9 (21%)	10 (27%)	-0.2 ± 0.7	-0.1 ± 0.7	9 (21%)	4 (11%)
Parent Education level									
Lower than college	19/23	8.0 ± 0.6	8.0 ± 0.5	7 (37%)	7 (30%)	-0.3 ± 0.7	0.0 ± 0.6	5 (26%)	1 (4%)
College or above	50/45	7.9 ± 0.9	7.8 ± 0.9	6 (12%)	12 (27%)	0.0 ± 0.6	-0.1 ± 0.7	6 (12%)	9 (20%)

* # subjects at 26 wks: CGM/Control † – Negative change denotes a drop in A1c from baseline _ ‡ – One subject did not report race/ethnicity.

§ Excludes 4 in CGM group and 2 in control group who switched from MDI to pump (n= 5) or pump to MDI (n=1) during study.

Supplementary Table 2. CGM-measured Glycemic Indices*

	Bas	eline	13 w	reeks	26 w	veeks	
	CGM	Control	CGM	Control	CGM	Control	P- value [†]
	N=62	N=67	N=61	N=65	N=62	N=67	
Mean Glucose (mg/dL) mean ± SD	194 ± 36	195 ± 35	190 ± 33	190 ± 36	191 ± 33	193 ± 33	0.30
% values 71-180 mg/dL (median)	46%	48%	52%	50%	48%	49%	0.60
Hypoglycemia (median)							
% values ≤70 mg/dL	2.7%	2.0%	2.0%	1.9%	1.5%	2.1%	0.78
% values ≤60 mg/dL	1.0%	0.7%	0.5%	0.7%	0.4%	0.6%	0.31
% values ≤50 mg/dL	0.2%	0.1%	0.0%	0.0%	0.0%	0.1%	0.13
Hypoglycemia Area under the Curve [‡]	0.3	0.2	0.1	0.2	0.1	0.2	0.29
LBGI §	0.8	0.6	0.5	0.5	0.5	0.6	0.58
Hyperglycemia (median)							
% values >180 mg/dL	49%	47%	44%	48%	50%	48%	0.82
% values >200 mg/dL	44%	37%	35%	38%	39%	41%	0.72
% values >250 mg/dL	25%	23%	19%	20%	20%	22%	0.18
Hyperglycemia Area under the Curve	41	39	32	33	33	39	0.16
HBGI	13.8	12.7	11.4	12.1	11.3	13.2	0.24
$\text{CV(\%)}^{\#}(median)$	43%	43%	40%	41%	40%	41%	0.07

* This table is restricted to subjects with at least 24 hours of glucose data at 26 weeks.

[†] P-value from ANCOVA for the comparison of the treatment groups at 26 weeks adjusted for baseline value, baseline A1c, site and device type, based on the van der Warden transformations.

Total area below 70 mg/dL; reflects both percentage and severity of glucose values in the hypoglycemic range

§ Low blood glucose index (1)

Total area above 180 mg/dL; reflects both percentage and severity of glucose values in the hyperglycemic range

¶ High blood glucose index (1)

Coefficient of variation, a measure of glucose variability, defined as Standard Deviation divided by mean glucose.

Supplementary Table 3. Hypoglycemia Fear Survey^{*}

]	Baseline					2	6 week		
	Mean	Never	Rarely	Sometimes	Often	Always	Mean	Never	Rarely	Sometimes	Often	Always
	score	(0)	(1)	(2)	(3)	(4)	score	(0)	(1)	(2)	(3)	(4)
			CGM/Co	ontrol (N=69/	58)				CGM/Con	ntrol (N=69/6	8)	
I worry about												
 Not recognizing that my child's blood sugar is low 	2.2/2.2	0%/1%	19%/22 %	54%/41%	17%/25%	10%/10 %	2.1/1.9	1%/7%	29%/24 %	41%/46%	17%/15 %	12%/9%
2. Not having food, fruit, or juice with me for my child	1.3/1.6	20%/13 %	42%/38 %	25%/32%	9%/7%	4%/9%	1.4/1.5	16%/12 %	43%/44 %	25%/32%	14%/7%	1%/4%
3. Having my child feel dizzy pass out in public because of low blood sugar low blood sugar	1.4/1.5	20%/16 %	39%/38 %	28%/28%	7%/10%	6%/7%	1.3/1.4	26%/19 %	38%/37%	25%/31%	6%/7%	6%/6%
4. Feeling that my child will have a reaction while asleep.	2.5/2.5	1%/0%	20%/18 %	28%/37%	25%/22%	26%/24 %	2.1/2.3	3%/0%	20%/18 %	45%/44%	25%/28 %	7%/10%
5. My child embarrassing him/herself because of low blood sugar.	0.8/0.6	48%/60 %	33%/24 %	12%/10%	3%/4%	4%/1%	0.6/0.7	51%/54 %	39%/26 %	7%/13%	3%/3%	0%/3%
6. My child having a reaction when he/she is out of my care	2.8/2.8	0%/1%	10%/6%	28%/29%	30%/35%	32%/28 %	2.4/2.5	4%/0%	17%/13 %	32%/41%	28%/29 %	19%/16%
7. My child "not being with it" (disoriented)	1.6/1.8	12%/13 %	38%/25 %	41%/37%	4%/16%	6%/9%	1.4/1.6	19%/13 %	29%/35 %	42%/35%	9%/12%	1%/4%
8. My child losing contro because of low blood sugar	1.4/1.7	14%/22 %	51%/22 %	25%/32%	3%/12%	7%/12%	1.2/1.4	25%/21 %	41%/34 %	26%/32%	6%/7%	3%/6%

				Baseline					2	6 week		
	Mean	Never	Rarely	Sometimes	Often	Always	Mean	Never	Rarely	Sometimes	Often	Always
	score	(0)	(1)	(2)	(3)	(4)	score	(0)	(1)	(2)	(3)	(4)
			CGM/C	ontrol (N=69/	68)				CGM/Con	ntrol (N=69/6	58)	
I worry about												
9. No one being around to help my child during a reaction	2.0/2.2	13%/10 %	23%/18 %	33%/38%	16%/13%	14%/21 %	1.8/1.9	10%/12 %	36%/32 %	28%/21%	17%/26 %	9%/9%
10. My child making a mistake or having an accident at school/daycare	1.2/1.4	26%/26 %	42%/26 %	22%/31%	4%/10%	6%/6%	1.2/1.2	35%/28 %	30%/40 %	26%/21%	1%/7%	7%/4%
 11. My child getting in trouble at school/daycare because of something that happens when his/her sugar is low something that happens when his/her sugar is low 	0.9/1.1	42%/40 %	30%/28 %	22%/19%	3%/7%	3%/6%	0.8/0.9	46%/47 %	33%/31 %	13%/12%	6%/7%	1%/3%
12. My child having seizures or convulsions	1.6/1.7	26%/24 %	25%/28 %	25%/21%	14%/15%	10%/13 %	1.0/1.4	36%/29 %	36%/29 %	20%/21%	3%/16%	4%/4%
13. My child developing long term complications from low blood sugar	2.3/2.3	6%/9%	20%/19 %	29%/26%	28%/21%	17%/25 %	1.8/1.9	16%/10 %	26%/26 %	36%/37%	10%/13 %	12%/13%
14. My child feeling dizzy or woozy when his/her blood sugar is low	2.0/2.3	4%/1%	30%/22 %	41%/40%	6%/24%	19%/13 %	1.7/2.0	10%/6%	30%/24 %	43%/41%	13%/19 %	3%/10%

]	Baseline					2	6 week		
	Mean score	Never (0)	Rarely (1)	Sometimes (2)	Often (3)	Always (4)	Mean score	Never (0)	Rarely (1)	Sometimes (2)	Often (3)	Always (4)
				ontrol (N=69/0	58)				CGM/Co	ntrol (N=69/6		
I worry about												
15. My child having a low blood sugar during school or sports	2.6/2.6	0%/0%	10%/10 %	38%/41%	30%/25%	22%/24 %	2.1/2.4	4%/1%	19%/15 %	43%/43%	29%/28 %	4%/13%

* Scale 0-4. Higher score denotes more fear.

Supplementary Table 4. Item Responses on the CGM-Satisfaction Scale^{*} at 26 Weeks (ordered by mean score)

		Percentage							
	Mean	Nega	tive †	Neutral	Favor	able †			
	Score	1	2	3	4	5			
USING THE CONTINUOUS MONITOR:									
Makes me feel safer knowing that I will be warned about low blood sugar before it happens	4.6	0%	1%	3%	33%	62%			
► I don't recommend this for other children with diabetes	4.6	0%	0%	6%	33%	61%			
I want to use this device when it is approved for sale	4.4	0%	4%	6%	30%	59%			
Makes adjusting insulin easier	4.3	0%	3%	6%	51%	41%			
Shows patterns in blood sugars that we didn't see before	4.3	1%	0%	6%	55%	38%			
► Is more trouble than it is worth	4.3	3%	3%	9%	36%	49%			
Helps in adjusting doses of insulin needed through the night	4.3	0%	1%	12%	46%	41%			
Helps me to relax, knowing that unwanted changes in blood sugar will be detected quickly	4.2	1%	0%	9%	55%	35%			
► Skips too many readings to be useful	4.2	0%	1%	9%	57%	33%			
Helps me to be sure about making diabetes decisions	4.2	0%	3%	9%	58%	30%			
Has made me worry less about having low blood sugars	4.1	1%	9%	4%	46%	39%			
Helps to keep low blood sugars from happening	4.1	1%	6%	7%	51%	35%			
Helps prevent problems rather than fixing them after they've happened	4.1	1%	0%	10%	62%	26%			
► The feedback from the device is not easy to understand or useful	4.1	0%	4%	12%	57%	28%			
Makes it clearer how some everyday habits affect blood sugar levels	4.0	0%	1%	14%	62%	22%			
► Gives a lot of results that don't make sense	4.0	0%	4%	17%	52%	26%			
► Causes me to be more worried about controlling blood sugars	4.0	3%	10%	7%	46%	33%			
Teaches me how eating affects blood sugar	4.0	0%	1%	20%	58%	20%			
► Makes it harder to sleep	3.9	3%	7%	14%	43%	32%			

► Causes more embarrassment about feeling different from others	3.9	4%	6%	12%	48%	30%
Has taught me new things about diabetes that I didn't know before	3.9	1%	3%	25%	43%	28%
► Has caused more family arguments	3.9	4%	6%	17%	38%	35%
Allows more freedom in daily life	3.9	1%	3%	20%	57%	19%
Causes our family to talk about blood sugars too much	3.9	1%	3%	19%	59%	17%
Helps with keeping diabetes under control on sick days	3.9	0%	1%	26%	58%	14%
► Interferes a lot with sports, playing outside, etc	3.9	3%	3%	19%	57%	19%
Has helped to adjust pre-meal insulin doses	3.9	1%	4%	16%	64%	14%
► Makes me think about diabetes too much	3.8	1%	9%	22%	43%	25%
► Causes others to ask too many questions about diabetes	3.8	3%	9%	22%	41%	26%
Has helped me to learn how to treat low sugars better	3.8	1%	7%	13%	68%	10%
► Causes too many interruptions during the day	3.8	4%	4%	17%	57%	17%
► Causes too many hassles in daily life	3.8	3%	6%	28%	39%	25%
► Sometimes gives too much information to work with	3.8	1%	14%	12%	52%	20%
Has helped me to learn about the right amount of exercise	3.7	1%	9%	26%	43%	20%
Makes it easier to complete other diabetes self care duties	3.7	1%	4%	29%	51%	14%
► Is too hard to get working right	3.7	6%	7%	17%	48%	22%
Alarms too often for no good reason	3.5	4%	14%	17%	52%	12%
Has helped to control diabetes better even when not wearing it	3.5	0%	14%	35%	41%	10%
Has helped my family to get along better about diabetes	3.4	4%	7%	38%	42%	9%
► Has been harder or more complicated than expected	3.4	9%	17%	19%	32%	23%
► Shows more "glitches" and "bugs" than it should	3.4	4%	16%	22%	48%	10%
► Is uncomfortable or painful	3.3	3%	26%	19%	39%	13%
Has made it easier to accept doing blood sugar tests	3.3	4%	13%	39%	39%	4%

* Scoring on a 5 point Likert scale with a higher value denoting more favorable response towards CGM use; ► indicates a negatively worded item, the scoring of which has been reversed so that a higher score denotes a more favorable response towards CGM.

[†] Favorable denotes agree/strongly agree with a positively worded statement or disagree/ strongly disagree with a negatively worded statement. Negative denotes vice-versa.

Supplementary Table 5. Blood Glucose Monitoring System Rating Questionnaire

A. In the past month, has this been a problem? *

			Baseline					26 week	Some (2) Very Little (3) N (2) Description N Description Second S			
	Mean score	A Lot (1)	Some (2)	Very Little (3)	Not at all (4)	Mean score	A Lot (1)	Some (2)	•	Not at all (4)		
		CGM	/Control (N=	=69/68)			CGM	1/Control (N	l=69/68)	I		
1. Worry or fear about high blood sugar	2.0/1.7	23%/41%	59%/49%	12%/7%	6%/3%	2.3/1.9	19%/22%	42%/65%	32%/12%	7%/1%		
2. Effort to keep high blood sugars from happening	1.8/1.6	39%/50%	46%/41%	10%/7%	4%/1%	2.1/1.7	20%/40%	52%/49%	25%/12%	3%/0%		
3. Worry or fear about low blood sugar	1.8/1.6	45%/44%	30%/49%	20%/6%	4%/1%	2.2/1.9	20%/29%	43%/56%	30%/15%	6%/0%		
4. Effort to keep low blood sugars from happening	1.8/1.8	43%/34%	32%/54%	22%/7%	3%/4%	2.3/1.9	20%/31%	42%/47%	29%/21%	9%/1%		
5. Worry or fear about low blood sugar during sleep	1.8/1.8	54%/44%	20%/32%	14%/21%	12%/3%	2.3/2.0	23%/29%	36%/47%	32%/22%	9%/1%		
6. Trouble sleeping well	2.6/2.5	26%/18%	19%/35%	26%/31%	29%/16%	2.9/2.6	10%/16%	25%/29%	32%/34%	33%/21%		
7. Hard to predict blood sugar readings	2.0/1.9	29%/28%	45%/53%	19%/16%	7%/3%	2.7/2.2	9%/12%	32%/57%	45%/26%	14%/4%		
8. Feeling different from others	2.7/2.4	10%/19%	33%/38%	35%/28%	22%/15%	3.0/2.6	9%/9%	20%/38%	30%/41%	41%/12%		
9. Amount of time spent thinking about diabetes	1.8/1.6	49%/57%	26%/28%	16%/15%	9%/0%	2.1/1.6	26%/51%	42%/34%	26%/13%	6%/1%		
10. Not knowing how eating affects your blood sugar	2.5/2.5	12%/13%	33%/38%	45%/34%	10%/15%	2.9/2.7	3%/4%	28%/35%	43%/47%	26%/13%		
11. Meal plan is too strict	3.3/3.1	1%/4%	13%/19%	38%/37%	48%/40%	3.3/3.1	3%/4%	14%/16%	33%/41%	49%/38%		
12. Amount of time and care needed for diabetes by my family or me	2.0/2.0	35%/35%	41%/44%	14%/10%	10%/10%	2.3/1.8	17%/43%	42%/34%	32%/21%	9%/3%		
13. Worry or fear about long term health	2.0/1.8	41%/43%	32%/46%	12%/6%	16%/6%	2.3/1.9	19%/40%	42%/37%	29%/22%	10%/1%		

14. Pain or discomfort from finger sticks or sensors	2.9/2.5	1%/9%	36%/44%	38%/34%	25%/13%	2.7/2.6	7%/9%	32%/34%	43%/46%	17%/12%
15. Pain or discomfort from insulin shots or pump sets	2.5/2.3	7%/9%	46%/60%	38%/22%	9%/9%	2.8/2.5	7%/7%	25%/43%	54%/41%	14%/9%
16. Family arguments or worries about diabetes	2.8/2.5	10%/18%	28%/32%	38%/29%	25%/21%	2.9/2.6	6%/9%	28%/38%	33%/32%	33%/21%
17. Handling work or school along with diabetes	2.5/2.4	13%/21%	39%/31%	33%/35%	14%/13%	2.7/2.3	9%/18%	33%/46%	33%/24%	25%/13%
18. Talking part in sports, exercise or playing	3.0/3.1	7%/3%	26%/24%	28%/34%	39%/40%	3.2/3.0	1%/4%	20%/24%	36%/44%	42%/28%
19. Knowing how much insulin to take	2.6/2.9	7%/4%	39%/32%	36%/37%	17%/26%	3.0/2.9	1%/4%	28%/25%	45%/50%	26%/21%
20. Keeping up with friends or peers who don't have diabetes	3.4/3.2	4%/4%	6%/16%	36%/38%	54%/41%	3.4/3.1	1%/6%	10%/13%	32%/41%	57%/40%
21. Reacting to all of the blood sugar results that I get	2.6/2.6	10%/7%	38%/41%	35%/35%	17%/16%	2.9/2.7	4%/4%	29%/41%	36%/34%	30%/21%
22. Dealing with others who ask about diabetes	3.3/3.1	3%/4%	13%/21%	35%/40%	49%/35%	3.3/3.1	3%/1%	12%/18%	35%/47%	51%/34%

* Scale 1-4. Higher score denotes fewer problems.

B. How has it changed in last 6 months?^{*}

		Bas	eline			26	week	
	Mean score	Worse (1)	Same (2)	Better (3)	Mean score	Worse (1)	Same (2)	Better (3)
		CGM/Contr	rol (N=69/68)			CGM/Cont	rol (N=69/68)	•
1. Worry or fear about high blood sugar	2.0/1.9	12%/19%	72%/68%	16%/13%	2.5/2.1	3%/10%	42%/68%	55%/22%
2. Effort to keep high blood sugars from happening	2.1/2.0	9%/13%	75%/74%	16%/13%	2.5/2.1	3%/12%	45%/62%	52%/26%
3. Worry or fear about low blood sugar	2.1/2.0	4%/9%	81%/78%	14%/13%	2.6/2.0	3%/6%	33%/85%	64%/9%
4. Effort to keep low blood sugars from happening	2.1/2.1	3%/3%	81%/85%	16%/12%	2.6/2.1	3%/4%	33%/81%	64%/15%
5. Worry or fear about low blood sugar during sleep	2.1/2.0	9%/13%	77%/74%	14%/13%	2.6/2.1	4%/7%	35%/79%	61%/13%
6. Trouble sleeping well	1.9/2.0	12%/6%	87%/88%	1%/6%	2.4/2.0	4%/3%	54%/91%	42%/6%
7. Hard to predict blood sugar readings	2.0/2.0	7%/9%	90%/82%	3%/9%	2.6/2.1	3%/4%	39%/85%	58%/10%
8. Feeling different from others	2.0/1.9	6%/13%	91%/82%	3%/4%	2.1/2.0	7%/6%	74%/88%	19%/6%
9. Amount of time spent thinking about diabetes	2.0/2.0	12%/12%	80%/81%	9%/7%	2.3/2.0	4%/4%	65%/91%	30%/4%
10. Not knowing how eating affects your blood sugar	2.1/2.1	1%/3%	86%/84%	13%/13%	2.4/2.1	3%/1%	49%/87%	48%/12%
11. Meal plan is too strict	2.0/2.1	0%/3%	97%/84%	3%/13%	2.2/2.1	1%/3%	75%/87%	23%/10%
12. Amount of time and care needed for diabetes by my family or me	1.9/2.0	10%/3%	86%/91%	4%/6%	2.2/2.0	7%/6%	68%/87%	25%/7%
13. Worry or fear about long term health	2.0/1.9	7%/12%	87%/85%	6%/3%	2.2/2.0	6%/7%	68%/85%	26%/7%
14. Pain or discomfort from finger sticks or sensors	2.0/2.0	1%/4%	97%/94%	1%/1%	2.2/2.0	4%/6%	75%/91%	20%/3%
15. Pain or discomfort from insulin shots or pump sets	2.0/2.0	4%/7%	88%/88%	7%/4%	2.1/2.0	7%/6%	80%/91%	13%/3%

16. Family arguments or worries about diabetes	2.0/1.9	6%/16%	87%/79%	7%/4%	2.1/2.0	10%/4%	72%/87%	17%/9%
17. Handling work or school along with diabetes	2.0/1.9	10%/15%	75%/81%	14%/4%	2.2/2.1	10%/7%	57%/79%	33%/13%
18. Talking part in sports, exercise or playing	2.1/2.0	0%/3%	91%/90%	9%/7%	2.3/2.0	1%/6%	65%/91%	33%/3%
19. Knowing how much insulin to take	2.1/2.1	3%/4%	87%/81%	10%/15%	2.4/2.0	3%/1%	55%/94%	42%/4%
20. Keeping up with friends or peers who don't have diabetes	2.0/2.0	4%/1%	90%/94%	6%/4%	2.3/2.0	1%/3%	71%/96%	28%/1%
21. Reacting to all of the blood sugar results that I get	2.0/2.0	4%/7%	87%/87%	9%/6%	2.3/2.0	3%/6%	61%/84%	36%/10%
22. Dealing with others who ask about diabetes	2.0/2.0	4%/3%	91%/93%	4%/4%	2.1/2.1	4%/1%	78%/90%	17%/9%

* Scale 1-3. Higher score denotes improvement

Supplementary Table 6. Pediatric Assessment In Diabetes Survey (PAID)*

				Basel	line					2	6 week		
		Mean	Favor	able [†]	Neutral	Nega	tive [†]	Mean	Favo	rable [†]	Neutral	Nega	ative [†]
		Score	(0)	(1)	(2)	(3)	(4)	Score	(0)	(1)	(2)	(3)	(4)
			С	GM/Contro	ol (N=69/68	5)				CGM/Co	ntrol (N=69	9/68)	
1.	I have clear and concrete goals for my child's diabetes care.	0.5/0.4	61%/63%	30%/34%	7%/1%	1%/1%	0%/0%	0.5/0.4	57%/63 %	36%/32 %	4%/4%	3%/0%	0%/0%
2.	► I feel discouraged with my child's diabetes treatment plan.	1.0/1.1	48%/49%	23%/21%	14%/9%	13%/18%	1%/4%	0.6/0.9	57%/50 %	29%/28 %	12%/9%	3%/10%	0%/3%
3.	► I feel scared when thinking about my child having/living with diabetes.	3.0/3.1	3%/3%	9%/7%	10%/12 %	42%/29%	36%/49%	2.4/2.8	13%/7%	13%/10 %	14%/12 %	38%/34%	22%/37%
4.	► I have difficulty dealing with school staff (e.g., nurses, teachers, principals).	1.2/1.1	48%/50%	12%/19%	22%/10 %	14%/15%	4%/6%	0.9/0.9	52%/56 %	20%/19 %	14%/12 %	9%/7%	4%/6%
5.	► I feel that my child is deprived regarding food and meals.	1.3/1.5	43%/34%	16%/16%	13%/18 %	26%/26%	1%/6%	0.9/1.3	46%/38 %	28%/26 %	12%/10 %	14%/21%	0%/4%
6.	► I feel that my child is excluded from activities/events because of his/her diabetes.	1.0/1.4	43%/40%	29%/19%	14%/10 %	10%/26%	3%/4%	0.8/1.0	54%/53 %	30%/18 %	4%/7%	10%/21%	1%/1%

				Base	line		26 week									
		Mean Score	Favorable [†]		Neutral	Negative [†]		Mean	Favorable [†]		Neutral	Negative [†]				
			(0)	(1)	(2)	(3)	(4)	Score	(0)	(1)	(2)	(3)	(4)			
		CGM/Control (N=69/68)							CGM/Control (N=69/68)							
7.	I know whether the mood or behavior my child is displaying is related to his/her blood sugar level.	1.1/1.2	22%/22%	57%/50%	12%/16 %	6%/7%	4%/4%	1.3/1.3	23%/19 %	49%/51 %	9%/13%	14%/15%	4%/1%			
8.	► I feel upset when my child's blood sugars are out of range.	3.2/3.1	1%/3%	4%/3%	12%/12 %	38%/44%	45%/38%	2.9/2.9	4%/1%	9%/13%	20%/10 %	29%/44%	38%/31%			
9.	► I worry about my child having a low blood sugar.	3.5/3.6	1%/0%	3%/0%	6%/9%	23%/22%	67%/69%	2.9/3.3	3%/0%	9%/1%	13%/12 %	42%/41%	33%/46%			
10.	► I feel angry when I think about my child having/living with diabetes.	2.1/2.4	22%/16%	17%/9%	14%/21 %	25%/25%	22%/29%	2.1/2.0	19%/25 %	17%/12 %	17%/19 %	29%/26%	17%/18%			
11.	► I feel constantly concerned about what my child eats.	2.6/3.0	10%/3%	12%/15%	13%/7%	36%/31%	29%/44%	2.2/2.9	19%/4%	12%/6%	20%/15 %	28%/49%	22%/26%			
12.	► I worry about the future and the possibility of serious complications for my child.	3.3/3.6	6%/0%	4%/1%	4%/6%	23%/22%	62%/71%	3.0/3.2	6%/3%	9%/3%	7%/6%	36%/46%	42%/43%			

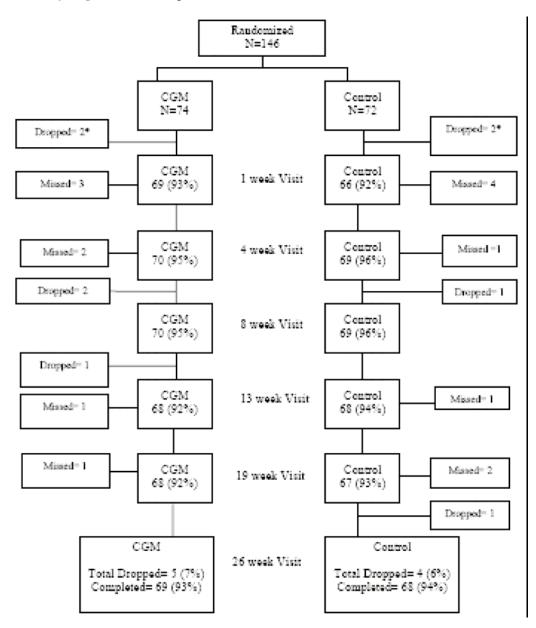
			Basel	line		26 week								
	Mean Score	Favorable [†]		Neutral	Negative [†]		Mean	Favorable [†]		Neutral	Negative [†]			
		(0)	(1)	(2)	(3)	(4)	Score	(0)	(1)	(2)	(3)	(4)		
	CGM/Control (N=69/68)							CGM/Control (N=69/68)						
 ►I feel upset when my child's diabetes management is "off track." 	3.3/3.4	1%/1%	4%/1%	10%/6%	33%/35%	51%/56%	2.9/3.2	3%/3%	12%/4%	7%/9%	45%/38%	33%/46%		
14. ►I worry that my child will not be taken care of when away from home.	2.9/2.6	7%/12%	10%/15%	10%/7%	33%/31%	39%/35%	2.3/2.3	13%/10 %	19%/24 %	10%/10 %	38%/38%	20%/18%		
15. ►I feel like the "diabetes police."	2.7/2.9	9%/6%	9%/6%	17%/18 %	38%/38%	28%/32%	2.3/2.4	19%/15 %	12%/10 %	12%/19 %	39%/34%	19%/22%		
 ►I feel that diabetes takes up too much mental and physical energy. 	2.1/2.5	17%/15%	19%/6%	23%/22 %	22%/25%	19%/32%	1.9/2.3	17%/18 %	28%/10 %	19%/24 %	19%/26%	17%/22%		
 I feel alone in managing my child's diabetes. 	1.3/1.5	38%/37%	23%/18%	12%/9%	22%/28%	6%/9%	1.2/1.2	42%/50 %	25%/12 %	10%/10 %	19%/21%	4%/7%		
 ►I feel that other family members are not supportive in managing my child's diabetes. 	1.2/1.3	46%/43%	17%/18%	10%/10 %	20%/25%	6%/4%	1.1/1.3	42%/49 %	30%/12 %	6%/12%	20%/18%	1%/10%		
 19. ►I worry whether or not my child will remember to eat his/her snack. 	1.5/1.5	36%/41%	17%/13%	16%/12 %	20%/21%	10%/13%	1.2/1.4	28%/32 %	42%/25 %	17%/16 %	9%/21%	4%/6%		

			Base	line		26 week									
	Mean	Favorable [†]		Neutral Nega		tive [†]	Mean	Favorable [†]		Neutral	Negative [†]				
	Score	(0)	(1)	(2)	(3)	(4)	Score	(0)	(1)	(2)	(3)	(4)			
		CGM/Control (N=69/68)							CGM/Control (N=69/68)						
20. ►I feel "burned out" by the constant effort to manage diabetes.	2.0/2.4	23%/18%	13%/7%	22%/15 %	22%/38%	20%/22%	1.8/2.0	20%/25 %	28%/10 %	14%/21 %	23%/26%	14%/18%			

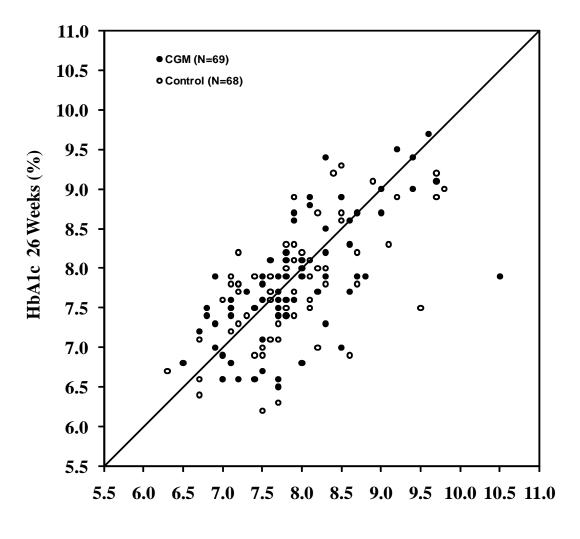
* Scale 0-4. Higher score denotes worse condition. ► indicates a negatively worded item, the scoring of which has been reversed so that a higher score denotes worse condition.

[†] Favorable denotes agree/somewhat agree with a positively worded statement or disagree/somewhat disagree with a negatively worded statement. Negative denotes vice-versa.

Supplementary Figure 1. Participant Flow Chart







HbA1c (%) at Baseline

REFERENCES

1. Kovatchev, B, Clarke, W, Breton, M, Brayman, K, McCall, A. Quantifying Temporal Glucose Variability in Diabetes via Continuous Glucose Monitoring: Mathematical Methods and Clinical Application. Diabetes Technol Ther 2005;7:849-862