Supplemental Table 1. Secondary CGM Metrics during the Daytime (06:00-23:59)

	Baseline N=35	AID Use Period N=35	SAP Use Period N=35	Mean Adjusted Difference [95% CI], P-Value [a]
Hours of Data				
Median (IQR)	231 (226, 245)	1324 (1247, 1387)	1413 (1330, 1455)	
Overall Glucose Control				
Percentage of Time in Target Range 70-180 mg/dL				
Mean (SD)	70% (16%)	68% (14%)	67% (15%)	0.8% [-3%, 5%], 0.65
Median (IQR)	74% (63%, 80%)	69% (61%, 78%)	68% (58%, 78%)	
Percentage of Time in the Tight Target Range 70-140 mg/dL				
Mean (SD)	45% (17%)	44% (14%)	44% (17%)	0.1% [-.5%, 6%], 0.96
Median (IQR)	45% (34%, 52%)	43% (36%, 55%)	44% (32%, 57%)	
Mean Glucose (mg/dL)				
Mean (SD)	154 (29)	158 (24)	155 (26)	4 [-4, 11], 0.41
Median (IQR)	151 (140, 164)	158 (142, 170)	154 (137, 169)	
Coefficient of Variation				
Mean (SD)	33.4% (5.0%)	34.5% (5.0%)	34.6% (5.7%)	-0.2% [-1.6%, 1.3%], 0.81
Median (IQR)	33.8% (31.7%, 36.3%)	34.6% (31.7%, 38.0%)	33.9% (30.3%, 38.8%)	
Standard Deviation (mg/dL)				
Mean (SD)	51.7 (13.9)	55.0 (12.9)	53.7 (13.1)	1.1 [-2.0, 4.2], 0.55
Median (IQR)	49.6 (42.4, 55.3)	54.1 (46.5, 60.9)	53.8 (46.8, 60.7)	
Percentage of Time in Target Range 70-180 mg/dL >70%				
n (%)	23 (66%)	16 (46%)	15 (43%)	2% [-8%, 13%], 0.65
Hypoglycemia				
% Time <54 mg/dL				
Mean (SD)	0.51% (0.81%)	0.37% (0.38%)	0.65% (0.71%)	-0.3% [-0.5%, 0.0%], 0.02
Median (IQR)	0.22% (0.00%, 0.61%)	0.21% (0.11%, 0.56%)	0.44% (0.11%, 0.98%)	
% Time <60 mg/dL				
Mean (SD)	1.01% (1.38%)	0.77% (0.77%)	1.31% (1.28%)	-0.5% [-0.9%, -0.2%],

				0.004
Median (IQR)	0.69% (0.03%, 1.25%)	0.60% (0.28%, 1.04%)	1.00% (0.26%, 1.78%)	
% Time <70 mg/dL				
Mean (SD)	2.9% (3.1%)	2.1% (1.9%)	3.4% (2.9%)	-1.4% [-2.1%, -0.6%], 0.001
Median (IQR)	2.5% (0.6%, 3.4%)	1.8% (0.9%, 2.6%)	3.0% (1.2%, 4.7%)	
LBGI				
Mean (SD)	0.9 (0.7)	0.6 (0.5)	0.9 (0.7)	-0.3 [-0.5, -0.1], 0.001
Median (IQR)	0.7 (0.3, 1.1)	0.6 (0.3, 0.7)	0.8 (0.4, 1.4)	
Hypoglycemic Event Rate per Week [b]				
Mean (SD)	1.10 (1.67)	0.81 (0.89)	1.34 (1.47)	-0.5 [-1.1, -0.02], 0.04
Median (IQR)	0.73 (0.00, 1.48)	0.54 (0.13, 1.26)	0.89 (0.26, 2.19)	
Percentage of Time Below 54 mg/dL <1%				
n (%)	29 (83%)	32 (91%)	27 (77%)	14% [-0.2%, 29%], 0.05
Percentage of Time in Target Range 70-180 mg/dL >70% and % of Time Below 54 mg/dL <1%				
n (%)	18 (51%)	14 (40%)	10 (29%)	11% [-1%, 23%], 0.07
Hyperglycemia				
% Time >180 mg/dL				
Mean (SD)	27% (17%)	30% (15%)	29% (16%)	0.7% [-4%, 5%], 0.69
Median (IQR)	25% (19%, 34%)	30% (20%, 38%)	28% (17%, 41%)	
% Time >250 mg/dL				
Mean (SD)	8% (10%)	9% (8%)	8% (8%)	0.8% [-2%, 3%], 0.55
Median (IQR)	4% (2%, 8%)	7% (3%, 12%)	6% (2%, 10%)	
% Time >300 mg/dL				
Mean (SD)	3% (5%)	3% (4%)	2% (4%)	0.2% [-1%, 2%], 0.79
Median (IQR)	1% (0%, 2%)	2% (1%, 3%)	1% (0%, 3%)	
HBGI				
Mean (SD)	6.4 (4.6)	6.9 (3.7)	6.5 (3.9)	0.3 [-0.9, 1.4], 0.62
Median (IQR)	5.1 (4.1, 7.2)	6.4 (4.3, 9.5)	5.8 (3.6, 8.5)	
Hyperglycemic Event Rate per Week [c]				
Mean (SD)	2.25 (3.55)	2.86 (3.33)	2.20 (2.42)	0.3 [-0.7, 1.3],

			0.55
Median (IQR)	0.83 (0.00, 2.18)	1.79 (0.52, 3.45)	1.81 (0.35, 3.40)

[a] Based on a repeated-measures least squares regression model adjusting for period as fixed effect and site as random effect. The model includes 3 time points: (1) baseline, (2) period 1 outcome, and (3) period 2 outcome. P-values and confidence intervals were adjusted for multiple comparisons using the Two Stage Benjamini-Hochberg adaptive false discovery rate procedure.

[b] An hypoglycemic event is defined as at least 15min <54 mg/dL. An event ends if at least 15min above 70 mg/dL.

[c] An hyperglycemic event is defined as at least 15min >300 mg/dL. An event ends if at least 15min below 250 mg/dL