Supplemental Table 2. Secondary CGM Metrics during the Nighttime (00:00-05:59)

	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)	78 (76, 83)	446 (423, 469)	466 (449, 490)	
Overall Glucose Control				
Percentage of Time in Target Range 70-180 mg/dL				
Mean (SD)	66% (19%)	70% (16%)	63% (17%)	6% [0.6%, 12%], 0.03
Median (IQR)	71% (53%, 80%)	74% (62%, 81%)	61% (52%, 78%)	
Percentage of Time in the Tight Target Range 70-140 mg/dL				
Mean (SD)	40% (18%)	45% (15%)	40% (18%)	5% [-2%, 12%], 0.11
Median (IQR)	41% (24%, 53%)	46% (37%, 53%)	36% (27%, 55%)	
Mean Glucose (mg/dL)				
Mean (SD)	157 (33)	158 (22)	161 (31)	-2 [-12, 8], 0.59
Median (IQR)	158 (139, 172)	153 (146, 168)	165 (138, 180)	
Coefficient of Variation				
Mean (SD)	32.6% (8.1%)	33.2% (7.0%)	34.8% (6.6%)	
Median (IQR)	32.7% (27.6%, 39.0%)	33.7% (27.2%, 37.6%)	35.5% (31.0%, 40.4%)	-1.4% [-3.7%, 0.9%], 0.15
Standard Deviation (mg/dL)				
Mean (SD)	50.7 (14.4)	52.9 (15.3)	56.3 (15.8)	
Median (IQR)	50.1 (41.3, 60.1)	53.5 (42.4, 60.6)	55.9 (47.4, 64.2)	-3.1 [-7.6, 1.4], 0.12
Percentage of Time in Target Range 70-180 mg/dL >70%				
n (%)	19 (54%)	21 (60%)	13 (37%)	21% [2%, 39%], 0.03
Hypoglycemia				
% Time <54 mg/dL				
Mean (SD)	0.95% (1.65%)	0.53% (0.70%)	0.88% (1.27%)	
Median (IQR)	0.00% (0.00%, 1.08%)	0.25% (0.02%, 0.76%)	0.35% (0.15%, 1.12%)	-0.4% [-0.9%, 0.1%], 0.11
% Time <60 mg/dL				
Mean (SD)	1.66% (2.65%)	0.89% (1.11%)	1.64% (2.13%)	

Median (IQR)	0.50% (0.00%, 2.36%)	0.45% (0.07%, 1.13%)	0.89% (0.26%, 2.19%)	-0.7% [-1.5%, 0.0%], 0.07
% Time <70 mg/dL				
Mean (SD)	3.8% (5.3%)	1.9% (2.0%)	3.8% (4.3%)	
Median (IQR)	2.0% (0.1%, 5.5%)	1.1% (0.4%, 2.9%)	2.4% (0.7%, 5.4%)	-1.8% [-3.3%, -0.2%], 0.03
LBGI				
Mean (SD)	1.0 (1.2)	0.6 (0.5)	1.0 (0.9)	
Median (IQR)	0.6 (0.2, 1.6)	0.4 (0.2, 0.8)	0.8 (0.3, 1.3)	-0.4 [-0.7, -0.06], 0.03
Hypoglycemic Event Rate per Week [b]				
Mean (SD)	1.85 (3.37)	0.96 (1.45)	1.63 (2.27)	
Median (IQR)	0.00 (0.00, 2.42)	0.42 (0.00, 1.29)	0.82 (0.34, 1.87)	-0.6 [-1.4, 0.3], 0.13
Percentage of Time Below 54 mg/dL <1%				
n (%)	25 (71%)	29 (83%)	26 (74%)	9% [-9%, 27%], 0.24
Percentage of Time in Target Range 70-180 mg/dL >70% and % of Time Below 54 mg/dL <1%				
n (%)	13 (37%)	19 (54%)	9 (26%)	27% [9%, 44%], 0.006
Hyperglycemia				
% Time >180 mg/dL				
Mean (SD)	30% (21%)	28% (16%)	33% (19%)	
Median (IQR)	26% (16%, 42%)	25% (16%, 36%)	35% (17%, 46%)	-4% [-10%, 1%], 0.11
% Time >250 mg/dL				
Mean (SD)	8% (12%)	8% (9%)	10% (10%)	
Median (IQR)	4% (0%, 11%)	6% (2%, 11%)	8% (2%, 17%)	-2% [-5%, 1%], 0.12
% Time >300 mg/dL				
Mean (SD)	3% (6%)	3% (4%)	4% (6%)	
Median (IQR)	0% (0%, 3%)	1% (0%, 3%)	1% (0%, 5%)	-1% [-3%, 0.4%], 0.11
HBGI				
Mean (SD)	6.9 (5.2)	6.6 (3.9)	7.7 (4.8)	
Median (IQR)	5.4 (3.7, 8.6)	5.3 (4.2, 7.7)	7.1 (3.6, 10.4)	-1.1 [-2.6, 0.4], 0.12
Hyperglycemic Event Rate per Week [c]				
Mean (SD)	2.36 (3.92)	2.56 (3.16)	2.28 (2.96)	

Median (IQR)	0.00 (0.00, 2.21)	1.19 (0.76, 2.80)	1.71 (0.35, 4.15)	-0.3 [-1.5, 0.9], 0.55

[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