

Advanced hybrid closed loop algorithm use in type 1 diabetes: the French MiniMed™ Glycemic Control and Quality of Life study

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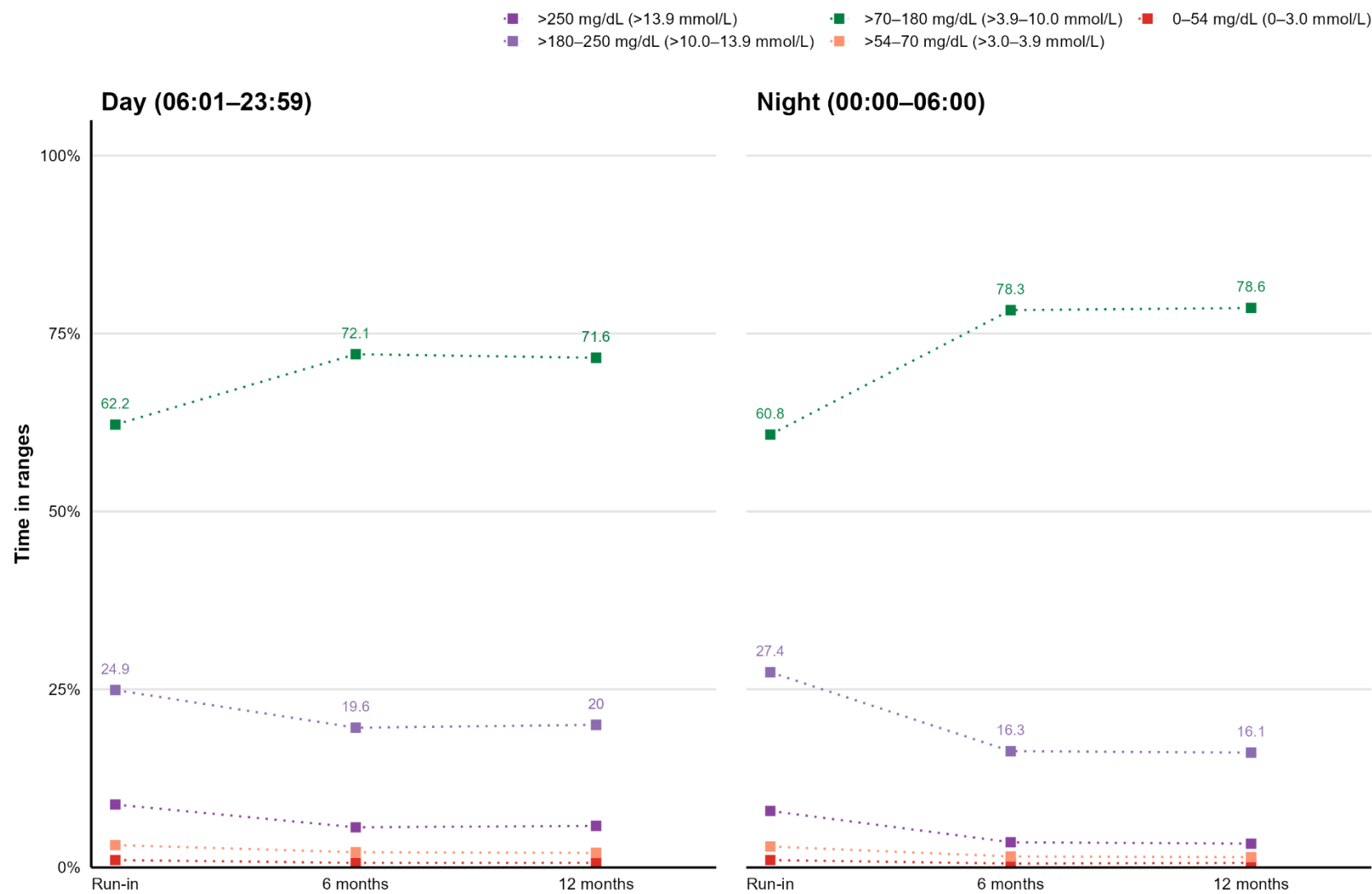
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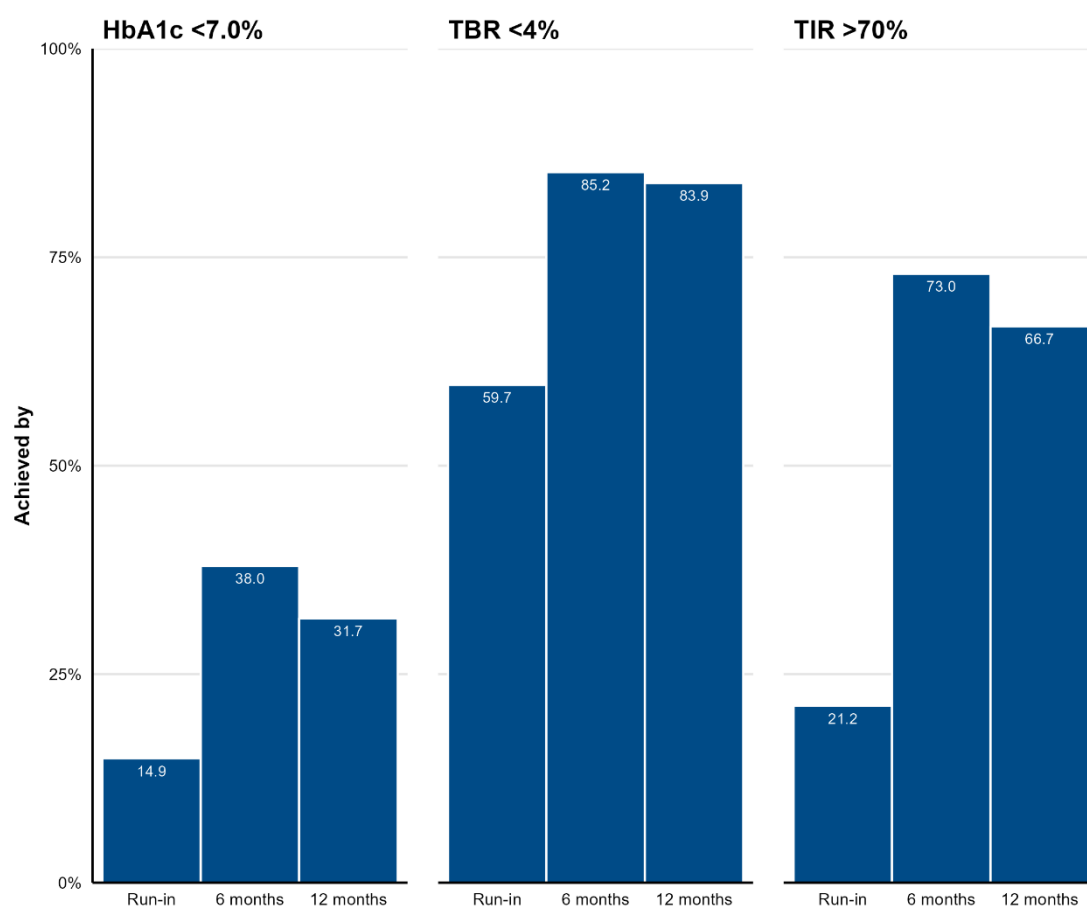
Supplementary Material

Figure S1 Time in range during the run-in and study phase, during day and night time



Abbreviations: dL, Deciliter; L, Liter; mg, Milligram.

Figure S2 Percentage of participants achieving glycemic targets over the run-in and study period



Abbreviations: HbA1c, Glycated hemoglobin; TBR, Time below range (defined as <70 mg/dL); TIR, Time in range (70–180 mg/dL).

Figure S3 Glycemic and time in range outcomes by system use settings at 6 months

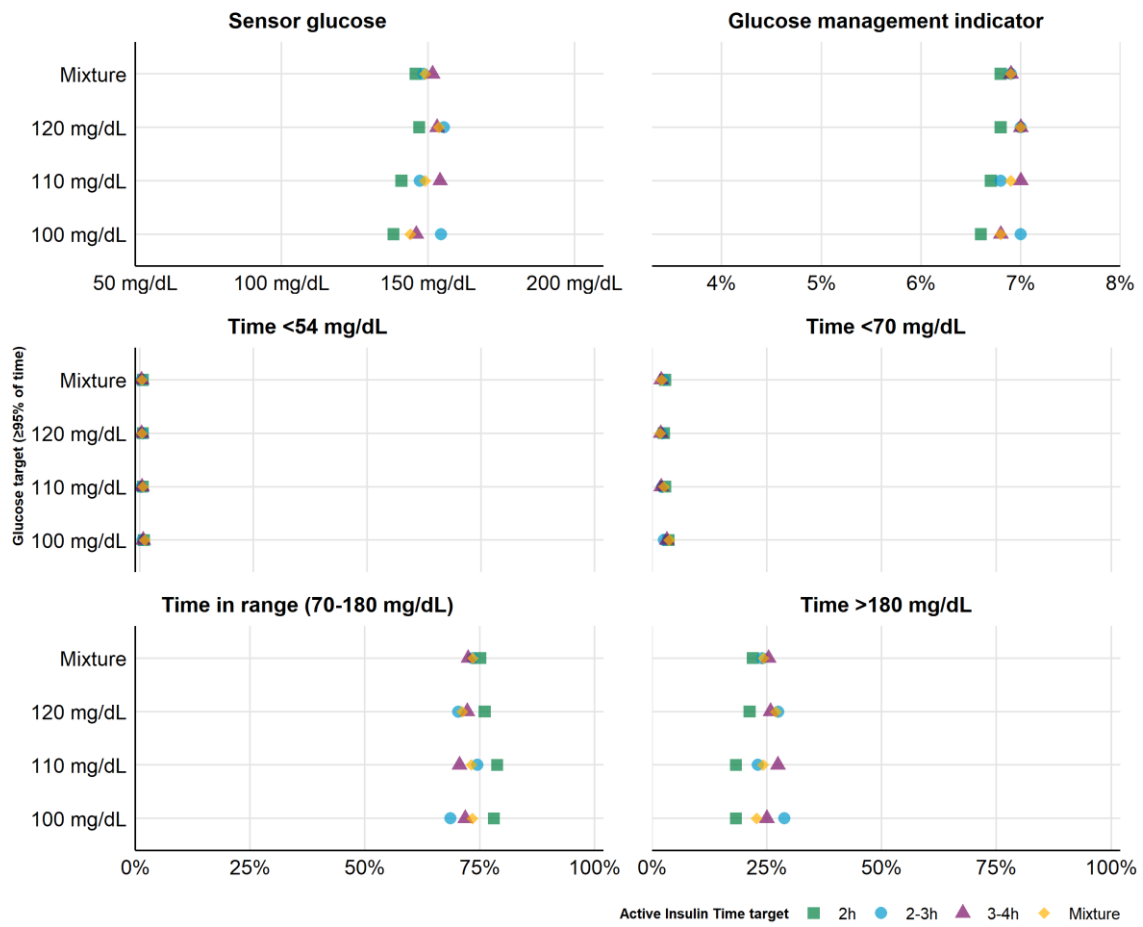


Table S1 Glycemic metrics and time in range among patients in the intent-to-treat population

	Run-in phase	Study phase: 6 months		Study phase: 12 months	
	Value	Value	Δ versus run-in	Value	Δ versus run-in
<i>Glycated hemoglobin in adults, %</i>					
Mean (SD [95% CI for change versus run-in phase), p-value	7.79 (0.841)	7.16 (0.707)	-0.58 (-0.70 to -0.50), p<0.001	7.25 (0.750)	-0.48 (-0.60 to -0.30), p<0.0001
Median (first quartile, third quartile)	7.70 (7.20, 8.20)	7.10 (6.80, 7.40)		7.10 (6.80, 7.60)	
Minimum, maximum	6.4, 11.9	5.7, 11.7		5.7, 11.4	
<i>Glucose management indicator, %</i>					
Mean (SD [95% CI for change versus run-in phase), p-value	7.15 (0.427)	6.86 (0.271)	-0.28 (-0.33 to -0.24), p<0.0001	6.87 (0.276)	-0.27 (-0.30 to -0.24), p<0.0001
Median (first quartile, third quartile)	7.12 (6.86, 7.41)	6.85 (6.68, 7.01)		6.86 (6.67, 7.04)	
Minimum, maximum	6.0, 8.6	6.2, 8.4		6.2, 7.8	
<i>Sensor glucose, mg/dL</i>					
Mean (SD [95% CI for change versus run-in phase)	160.39 (17.871)	148.54 (11.331)	-11.88 (-13.62 to -10.15), p<0.0001	148.80 (11.520)	-11.28 (-12.66 to -9.90), p<0.001
Median (first quartile, third quartile)	159.44 (148.36, 171.26)	147.81 (140.87, 154.60)		148.59 (140.55, 155.96)	
Minimum, maximum	111.1, 221.4	121.3, 212.5		121.0, 188.6	
<i>Standard deviation, mg/dL</i>					
Mean (SD [95% CI for change versus run-in phase)	58.96 (10.467)	52.27 (8.199)	-6.78 (-7.71 to -5.84), p<0.001	52.44 (8.256)	-6.19 (-6.97 to -5.42), p<0.0001

	Run-in phase	Study phase: 6 months		Study phase: 12 months	
	Value	Value	Δ versus run-in	Value	Δ versus run-in
Median (first quartile, third quartile)	57.64 (52.51, 64.66)	51.61 (46.73, 57.22)		51.88 (46.11, 57.30)	
Minimum, maximum	32.6, 93.2	32.5, 93.8		33.6, 83.3	
<i>Coefficient of variation</i>					
Mean (SD [95% CI for change versus run-in phase])	36.81 (5.430)	35.10 (4.061)	-1.76 (-2.31 to -1.21), p<0.0001	35.17 (4.166)	-1.53 (-1.97 to -1.09), p<0.0001
Median (first quartile, third quartile)	36.16 (32.88, 40.22)	34.98 (32.37, 37.95)		35.03 (31.98, 38.07)	
Minimum, maximum	23.1, 54.1	26.0, 49.5		25.7, 47.3	
<i>Time in range (70–180 mg/dL), %</i>					
Mean (SD [95% CI for change versus run-in phase])	61.86 (11.027)	73.07 (7.810)	11.18 (10.32 to 12.04), p<0.0001	73.27 (7.880)	11.09 (10.37 to 11.82), p<0.0001
Median (first quartile, third quartile)	62.73 (54.64, 68.53)	73.57 (68.41, 78.10)		74.27 (67.80, 78.80)	
Minimum, maximum	28.1, 91.9	40.2, 100.0		46.6, 90.8	

Abbreviations: Δ, Change; CI, Confidence Interval; dL, Deciliter; mg, Milligram, SD, Standard Deviation