

Inteligența Artificială Astăzi!

Exemple pragmatice de intervenție în Diabetul Zaharat tip 1

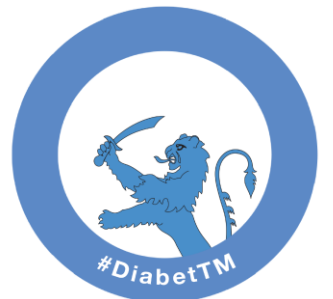
S.L. Dr. Vlad Avram



“Victor Babeș”
University of Medicine
and Pharmacy | Timișoara

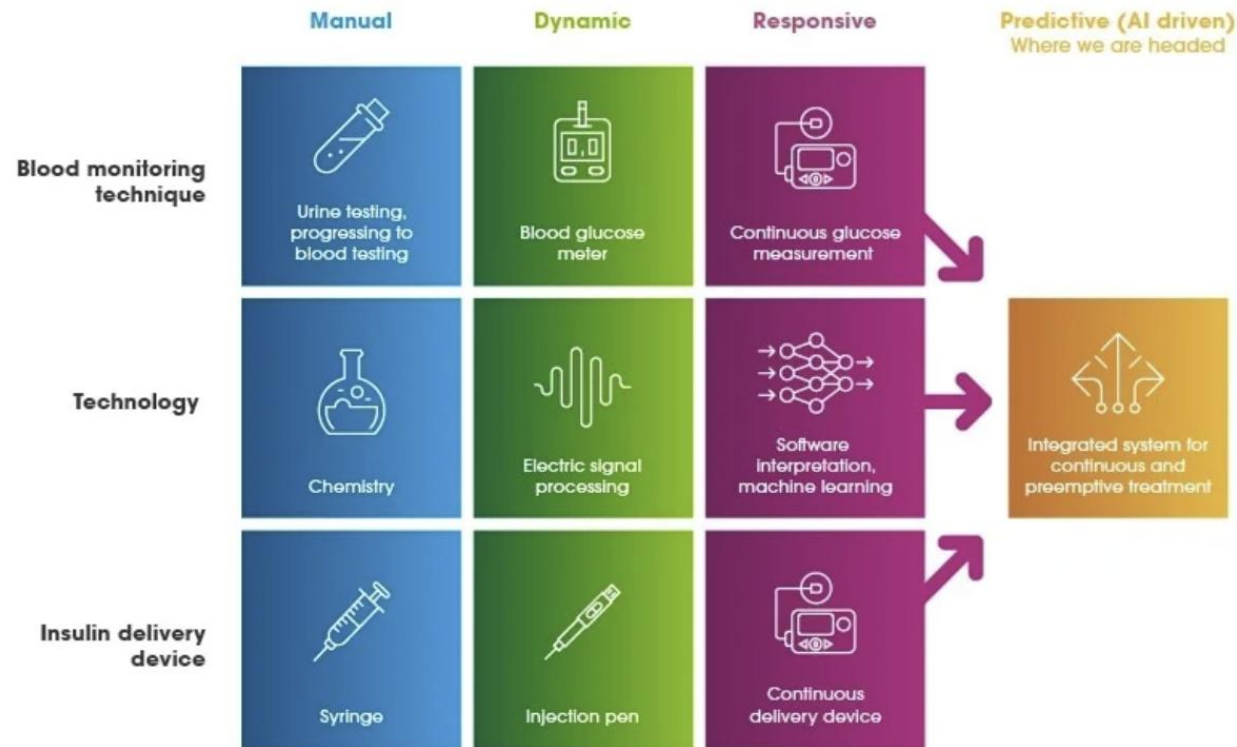
Clinical Diabetes Center

TIMIȘOARA

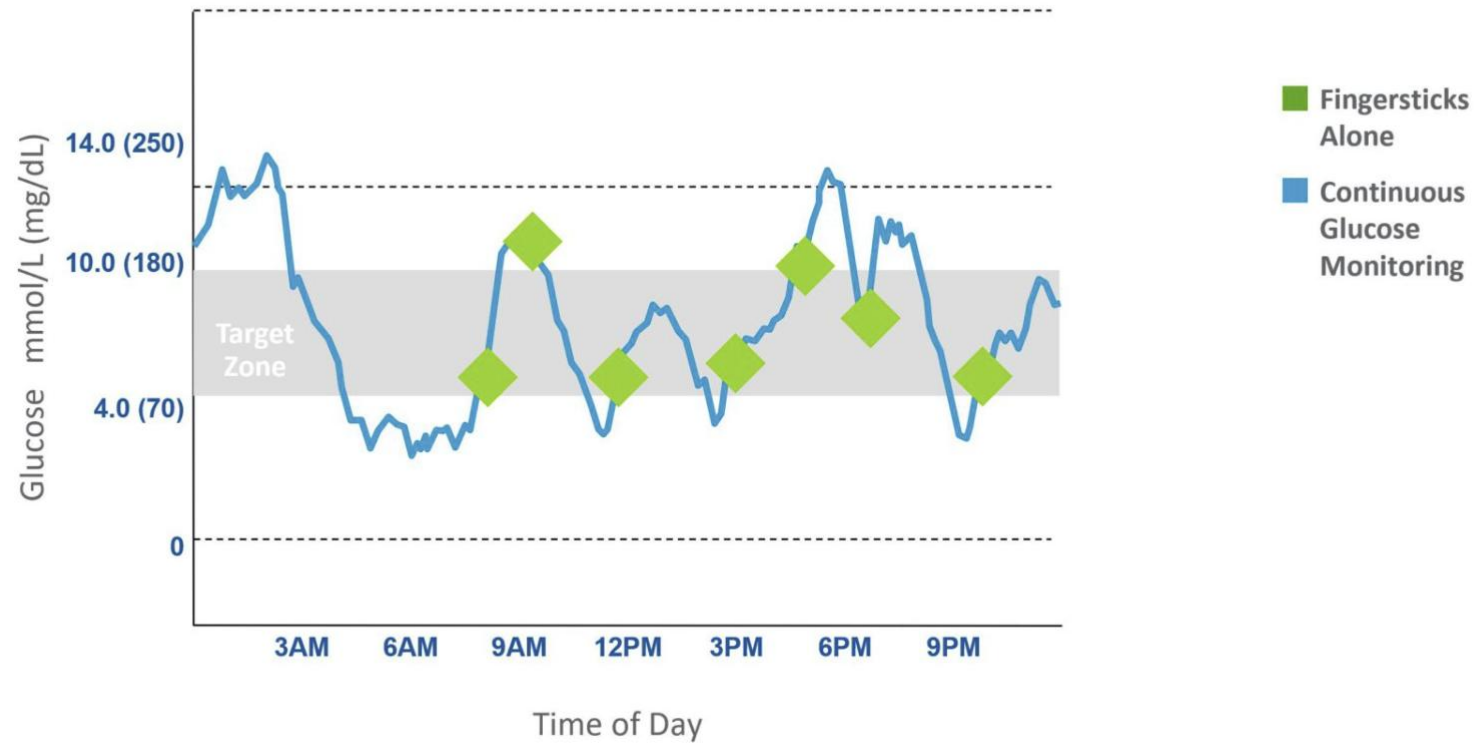


Ever-evolving








BGM Evolution 1970-2020



CGMs identify trends

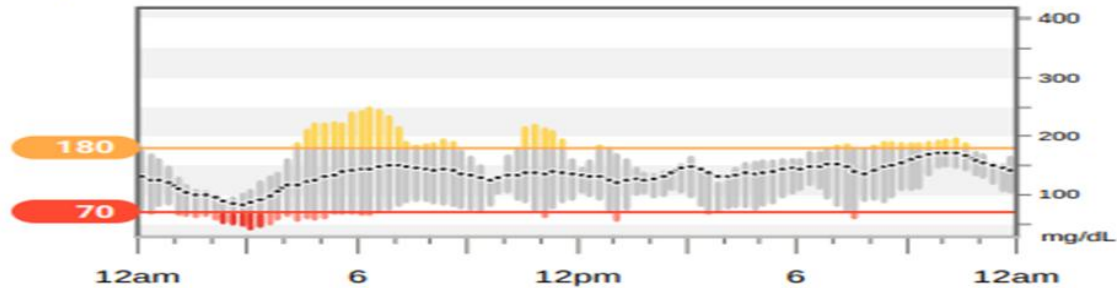


Trend arrows

Libre	Dexcom	Medtronic	Description	Where the glucose will be in 10 minutes
		↑↑↑	Rapidly rising	more than 2.0mmol/l higher (40mg/dL)
↑		↑↑	Rising	1.5mmol/l higher (30mg/dL)
↗		↑	Slowly rising	1mmol/l higher (20mg/dL)
→			Stable	Same
↘		↓	Slowly falling	1 mmol/l lower (20mg/dL)
↓		↓↓	Falling	1.5 mmol/l lower (30mg/dL)
		↓↓↓	Rapidly falling	more than 2.0mmol/l lower (40mg/dL)

Useful in identifying nighttime hipos

7 days Wed Oct 14, 2020 - Tue Oct 20, 2020



Glucose

Average Glucose

134 mg/dL

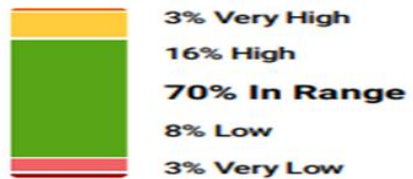
Standard Deviation

56 mg/dL

GMI

N/A

Time in Range



Target Range:

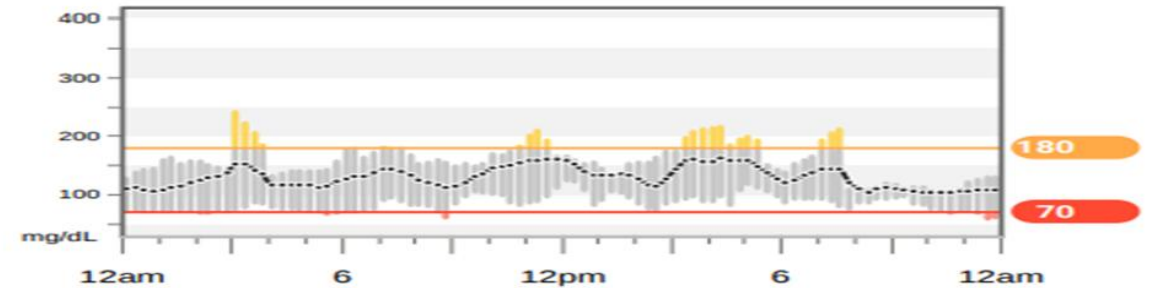
70-180 mg/dL

Sensor Usage

Days with CGM data **100%** 7/7

Avg. calibrations per day **0.0**

7 days Wed Oct 21, 2020 - Tue Oct 27, 2020



Average Glucose

130 mg/dL

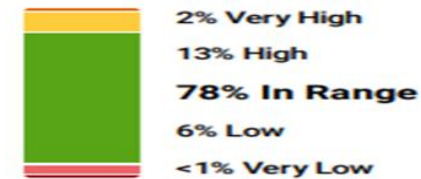
Standard Deviation

50 mg/dL

GMI

N/A

Time in Range



Target Range:

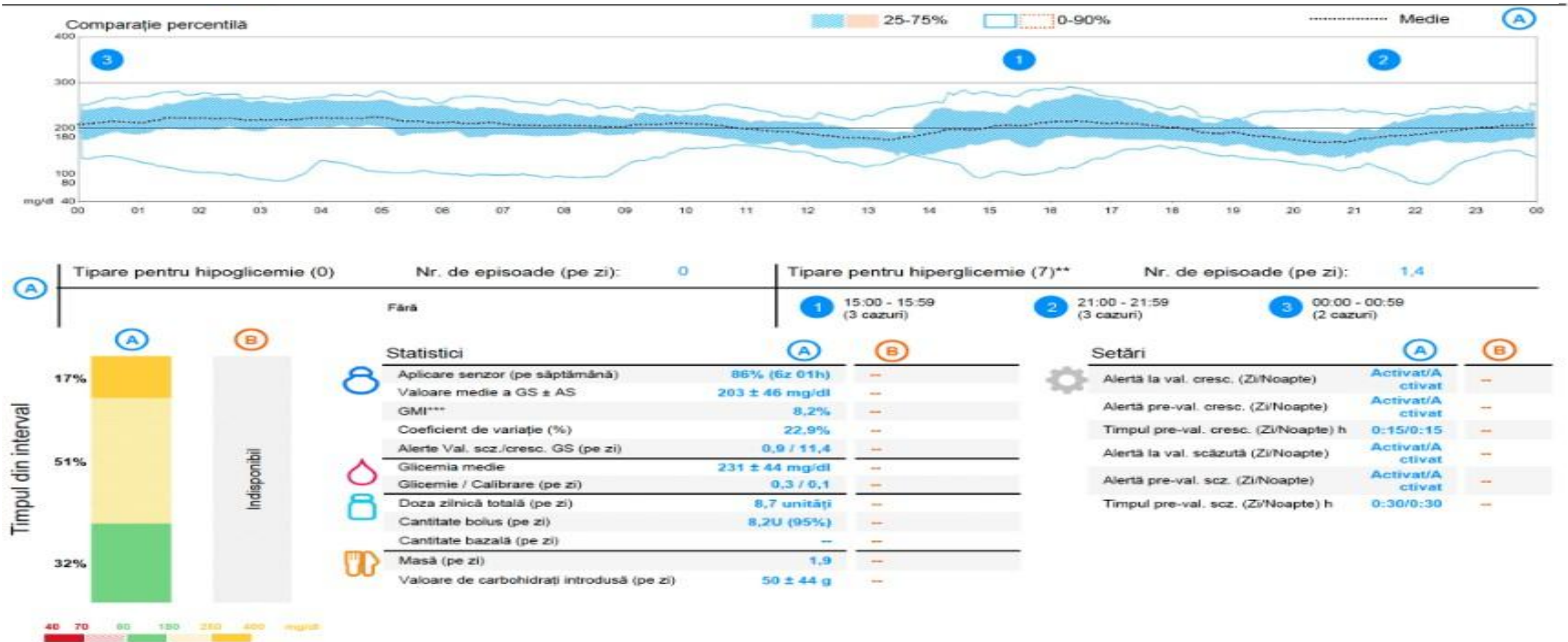
70-180 mg/dL

Sensor Usage

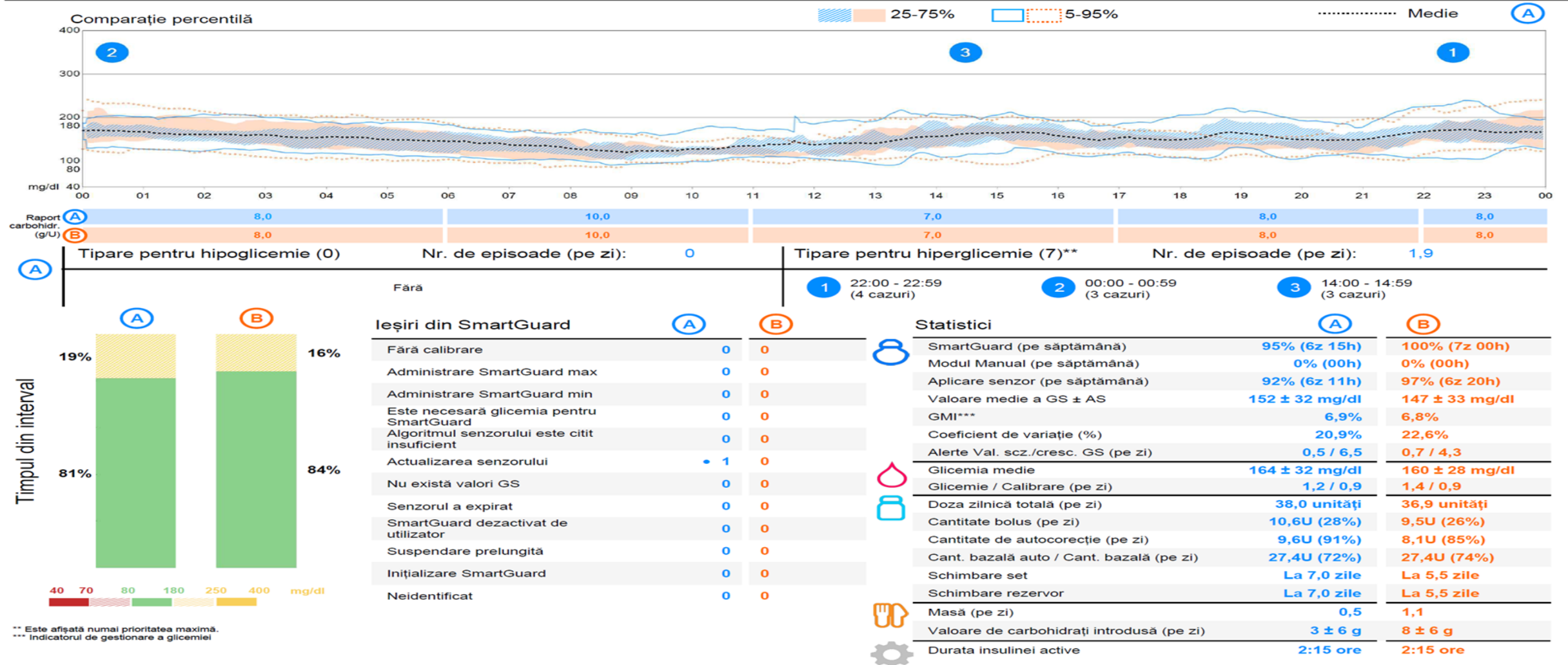
Days with CGM data **100%** 7/7

Avg. calibrations per day **0.0**

Useful in treating fear of lows

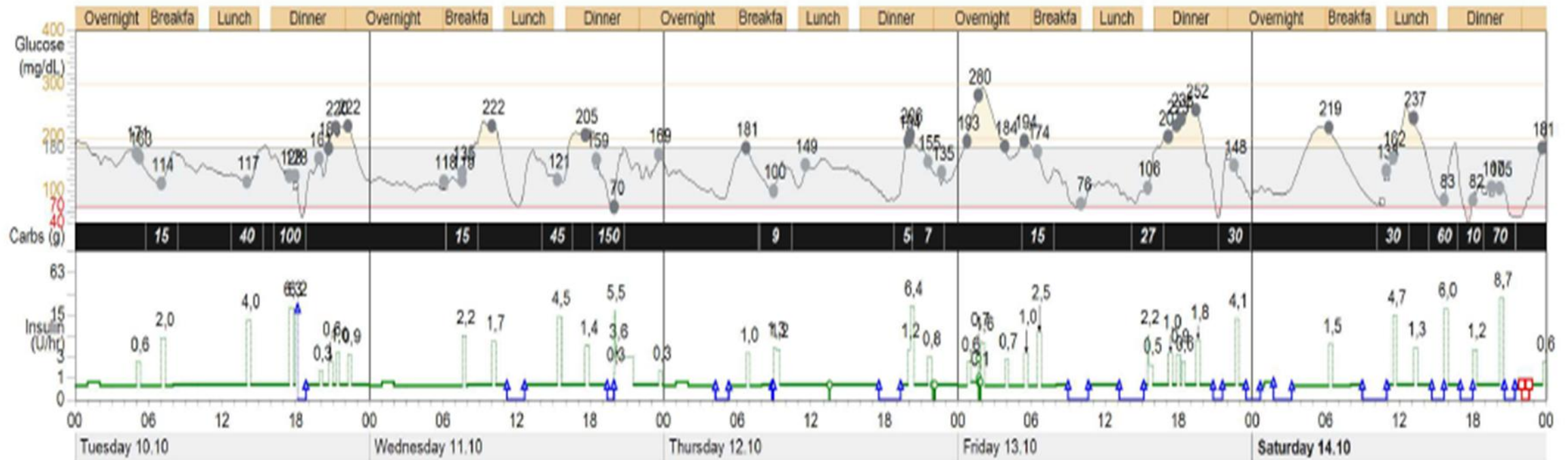


Useful in treating fear of lows

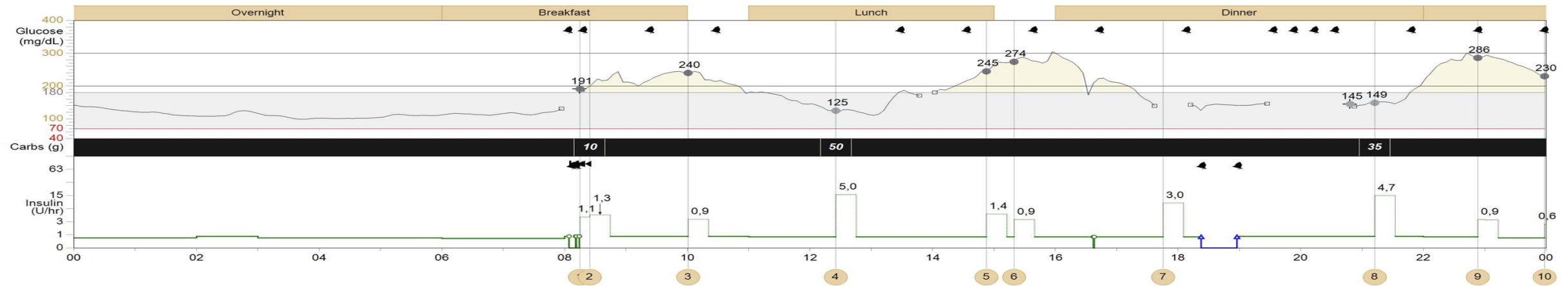
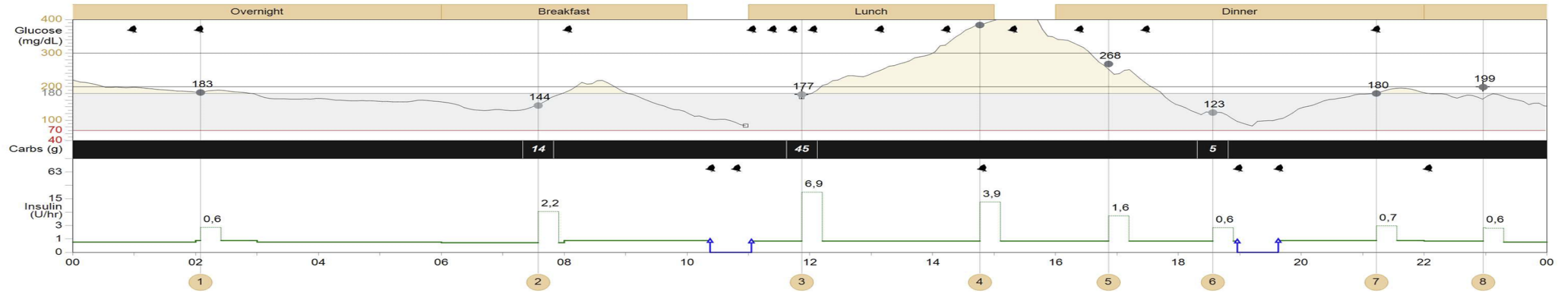


Acest raport este compatibil cu calculele pentru Profilul glicemic ambulator utilizate de Centrul Internațional pentru Diabet.

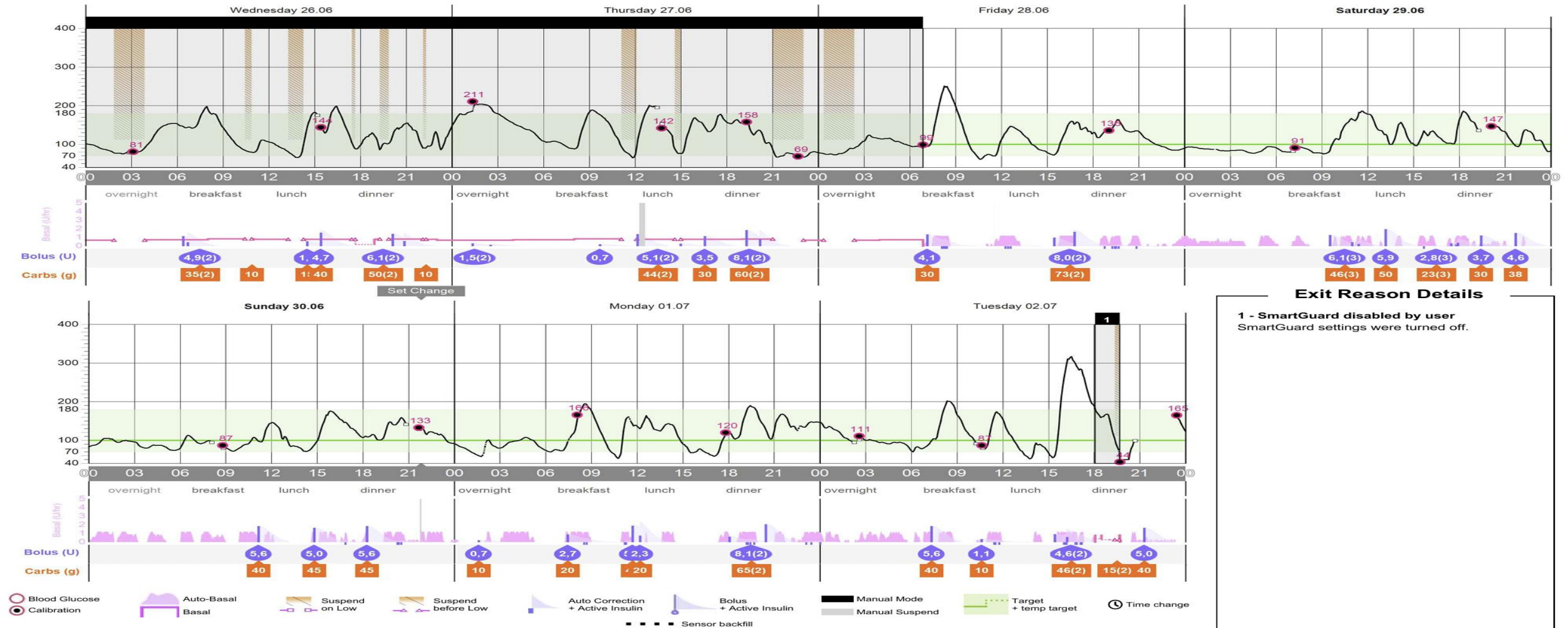
Useful in reducing hypos



Pregnant 3 weeks



Pregnant 9 weeks



Pregnant 13 weeks

Tuesday 30.07

TDD 33,4U

Total Basal 30% | 10,1U

Total Bolus 70% | 23,3U

{ Bolus 82% | 19,2U

+ Auto Correction 18% | 4,1U

}

Time in Range



Pregnant 24 weeks

Saturday 12.10

TDD 74,9U

Total Basal 29% | 21,4U

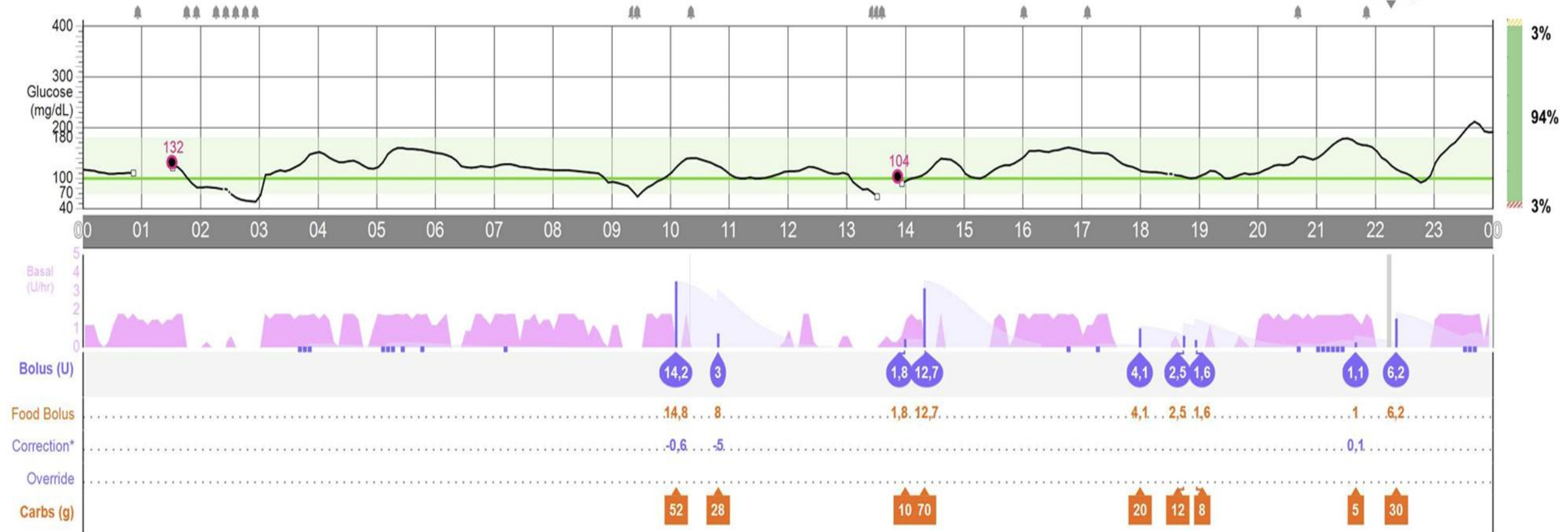
Total Bolus 71% | 53,5U

{ Bolus 88% | 47,2U

+ Auto Correction 12% | 6,3U }

Set Change

Time in Range



Pregnant 33 weeks

Monday 09.12

TDD 115,2U

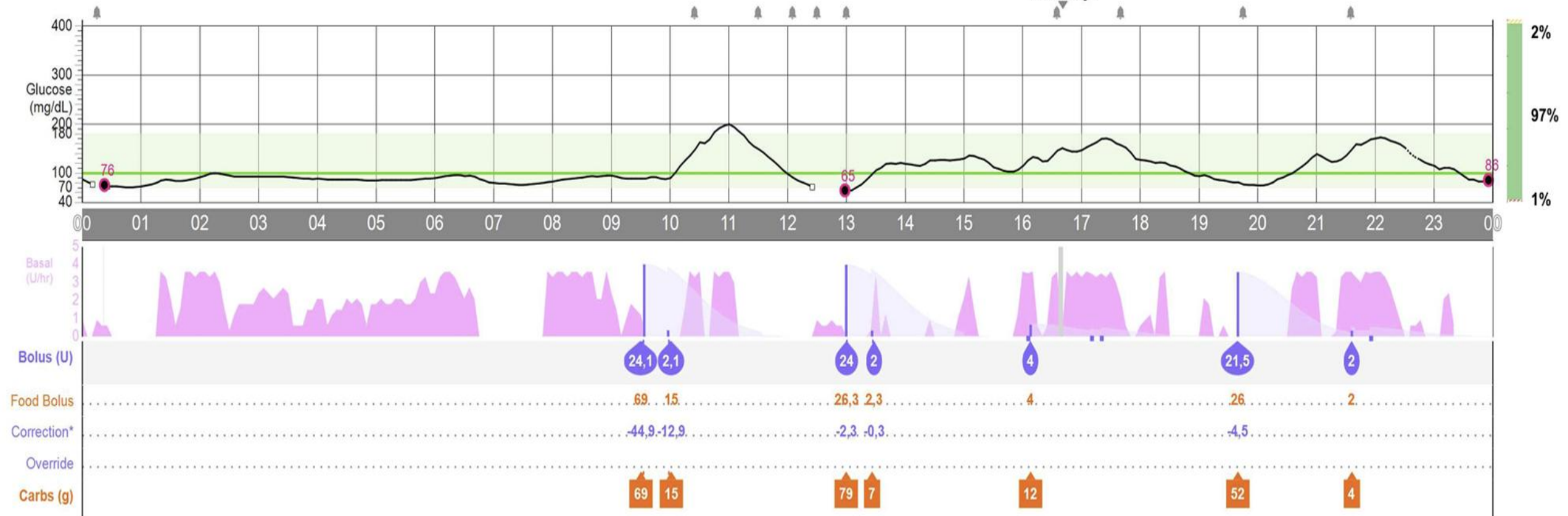
Total Basal 28% | 32,2U

Total Bolus 72% | 83,0U

{ Bolus 96% | 79,7U + Auto Correction 4% | 3,3U }

Set Change

Time in Range



*Active insulin considered. SmartGuard also considers SmartGuard bolus adjustment.

Back to normal?

Saturday 08.02

TDD 37,0U

Total Basal 31% | 11,3U

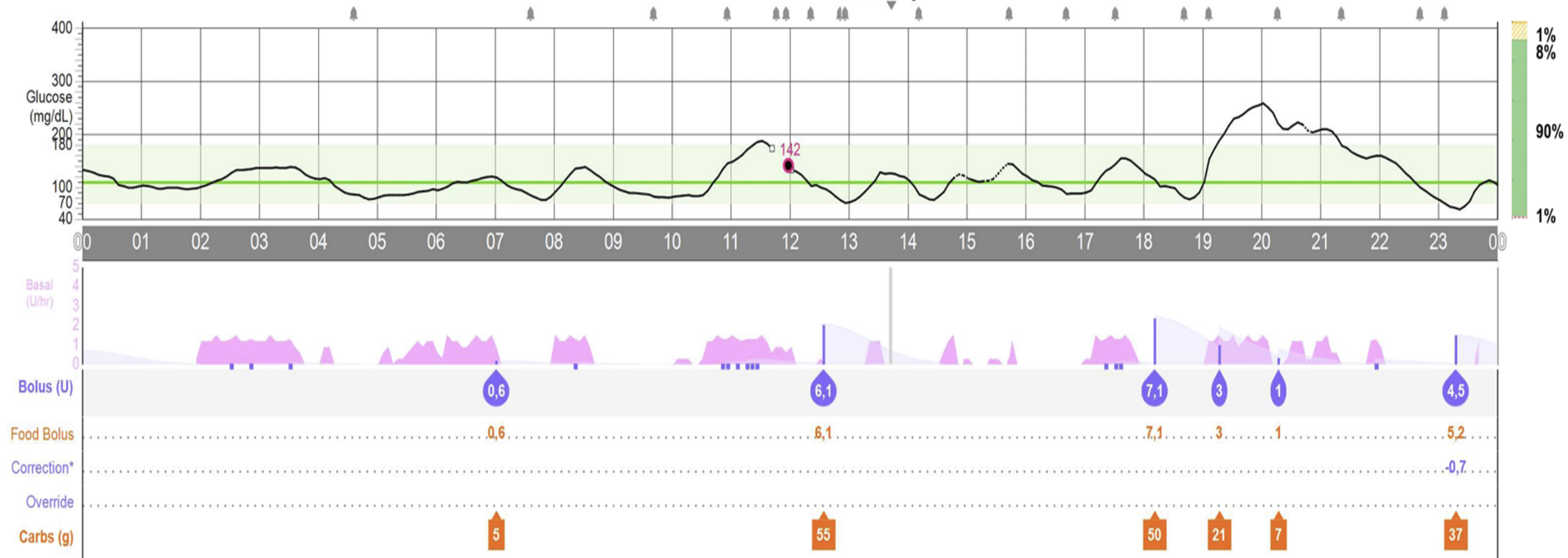
Total Bolus 69% | 25,7U

Set Change

{ Bolus 89% | 23,0U

+ Auto Correction 11% | 2,7U }

Time in Range



Forgotten meal bolus

vineri 03.10

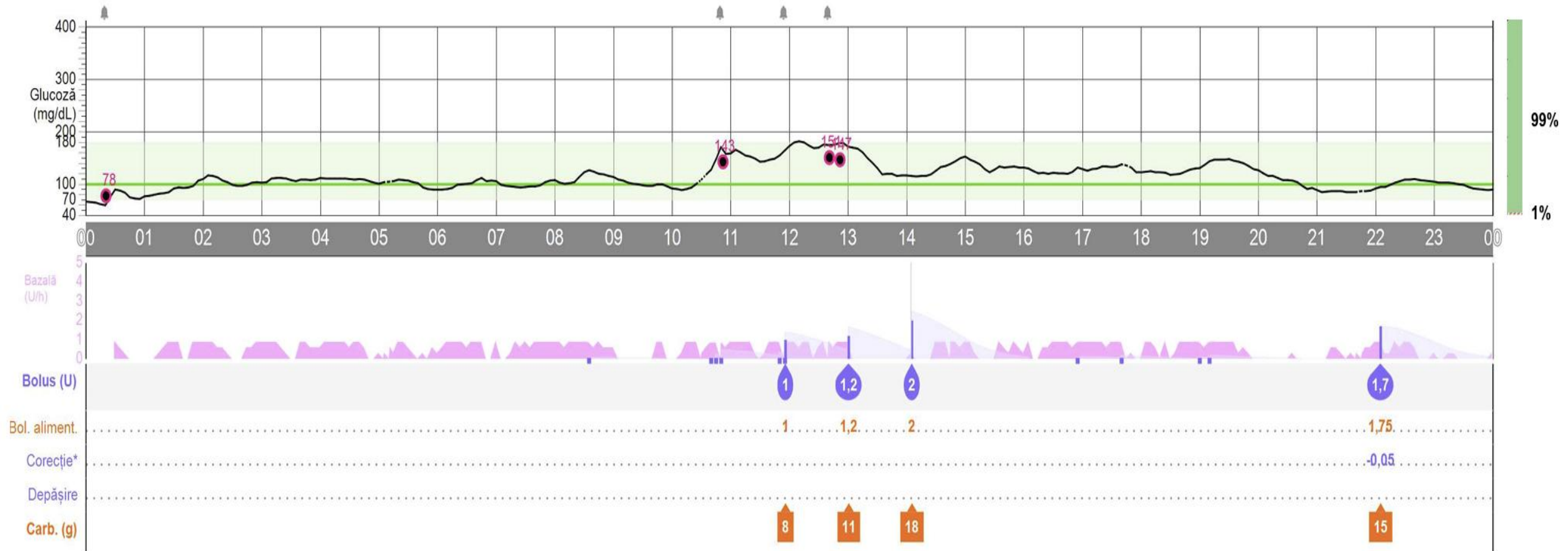
TDD 18,8U

Total insulină bazală 62% | 11,7U

Total bolus 38% | 7,1U

{ Bolus 83% | 5,9U + Autocorecție 17% | 1,2U }

Timpul din interval



Forgotten meal bolus

duminică 05.10

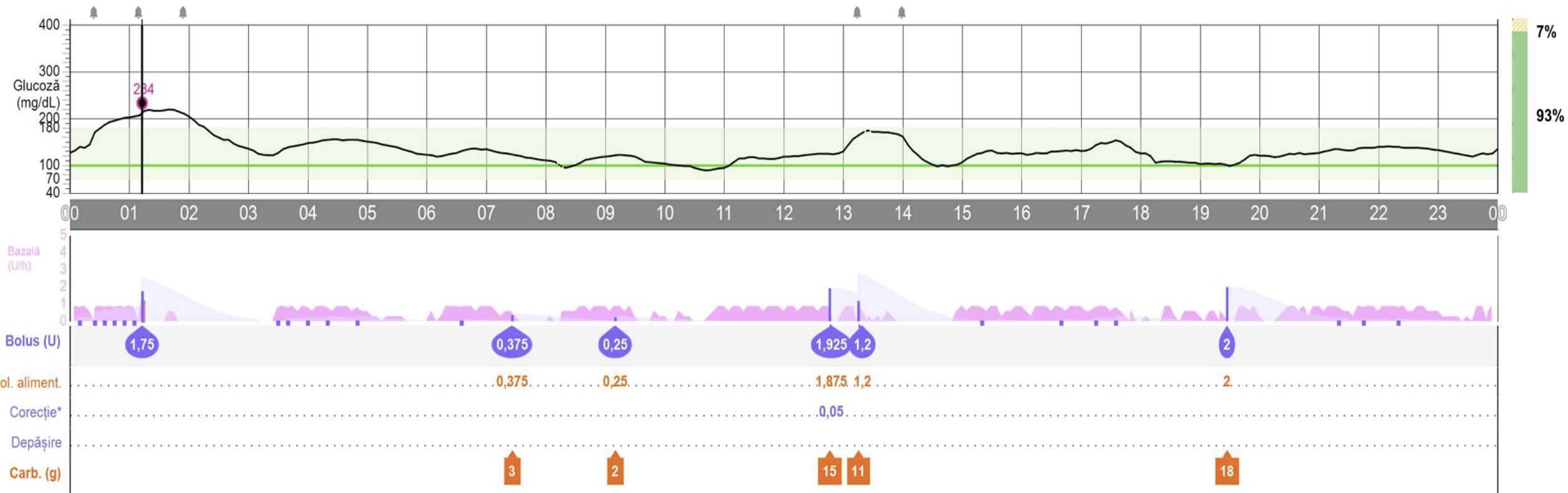
TDD 22,1U

Total insulină bazală 56% | 12,4U

Total bolus 44% | 9,7U

{ Bolus 76% | 7,4U + Autocorecție 24% | 2,3U }

Timpul din interval



100% TIR is achievable

