



CASE STUDIES

Professional Panel Discussion
Bernard Degnan, MD



CGM Glucose Pattern Summary **LibreView**

April 23, 2019 - May 3, 2019 (11 Days)

CGM Device: FreeStyle Libre Pro [NA]% Compliant w/Calibration* 100% Time Worn

**Not applicable to FreeStyle Libre or FreeStyle Libre Pro which do not require calibration.*

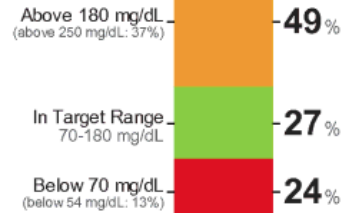
Summary

Average
Glucose

212
mg/dL

88-116*

Time In Range



Coefficient
of
Variation
(CV)

69.3%

19-25*

Standard
Deviation
(SD)

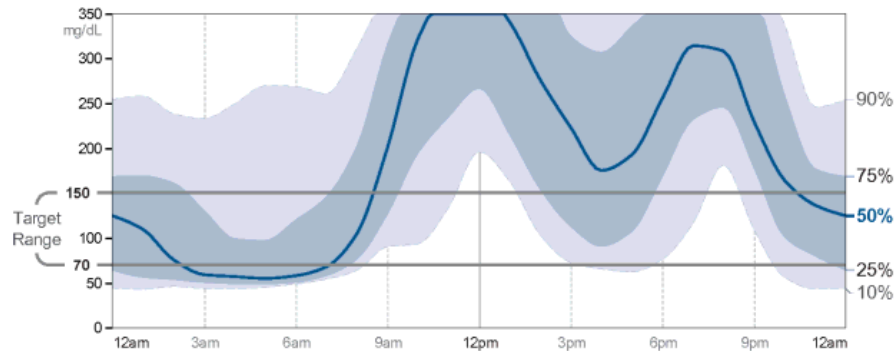
147
mg/dL

10-26*

**Reference ranges calculated from population without diabetes.*

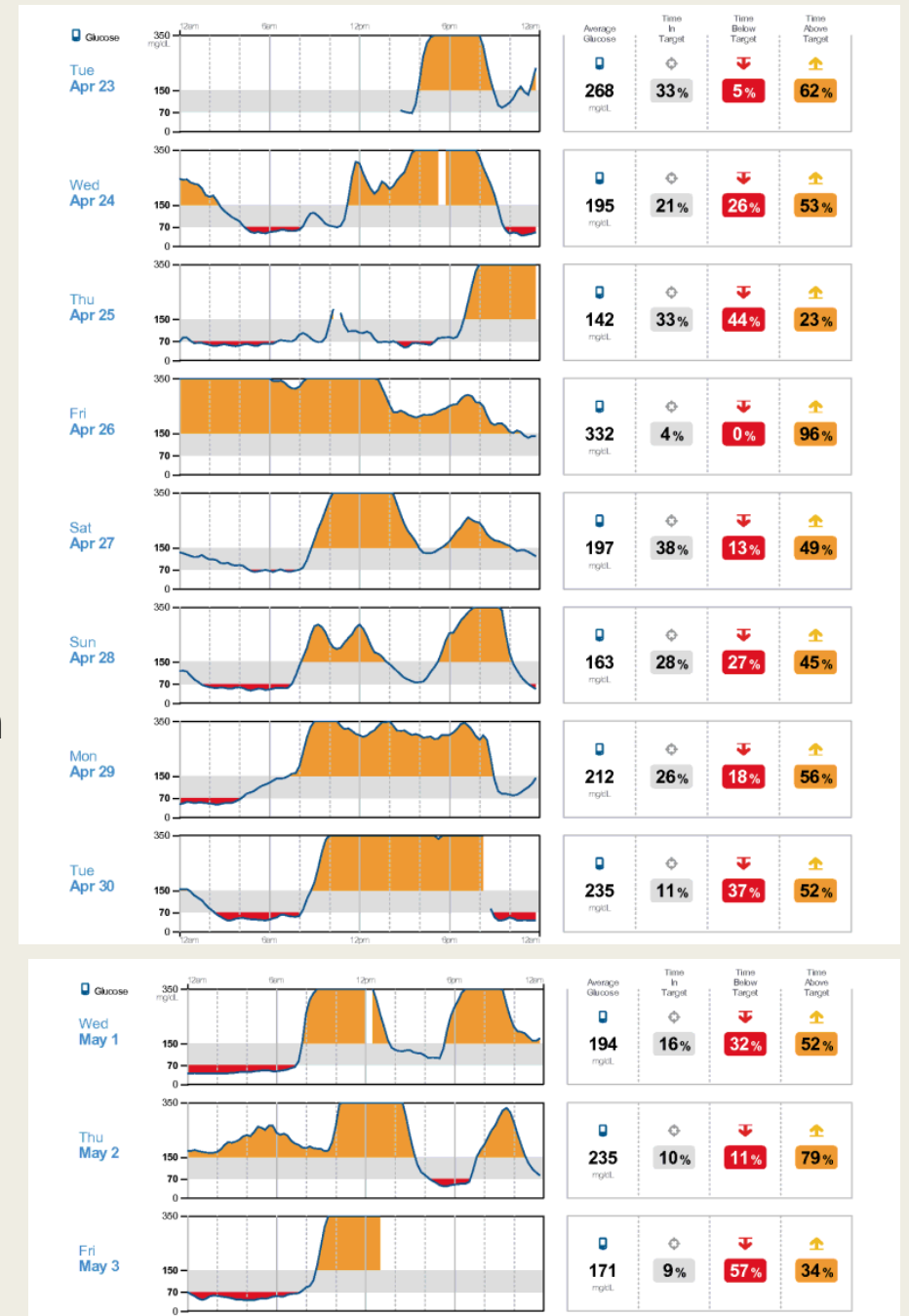
Ambulatory Glucose Profile

Curves/plots represent glucose frequency distributions by time regardless of date

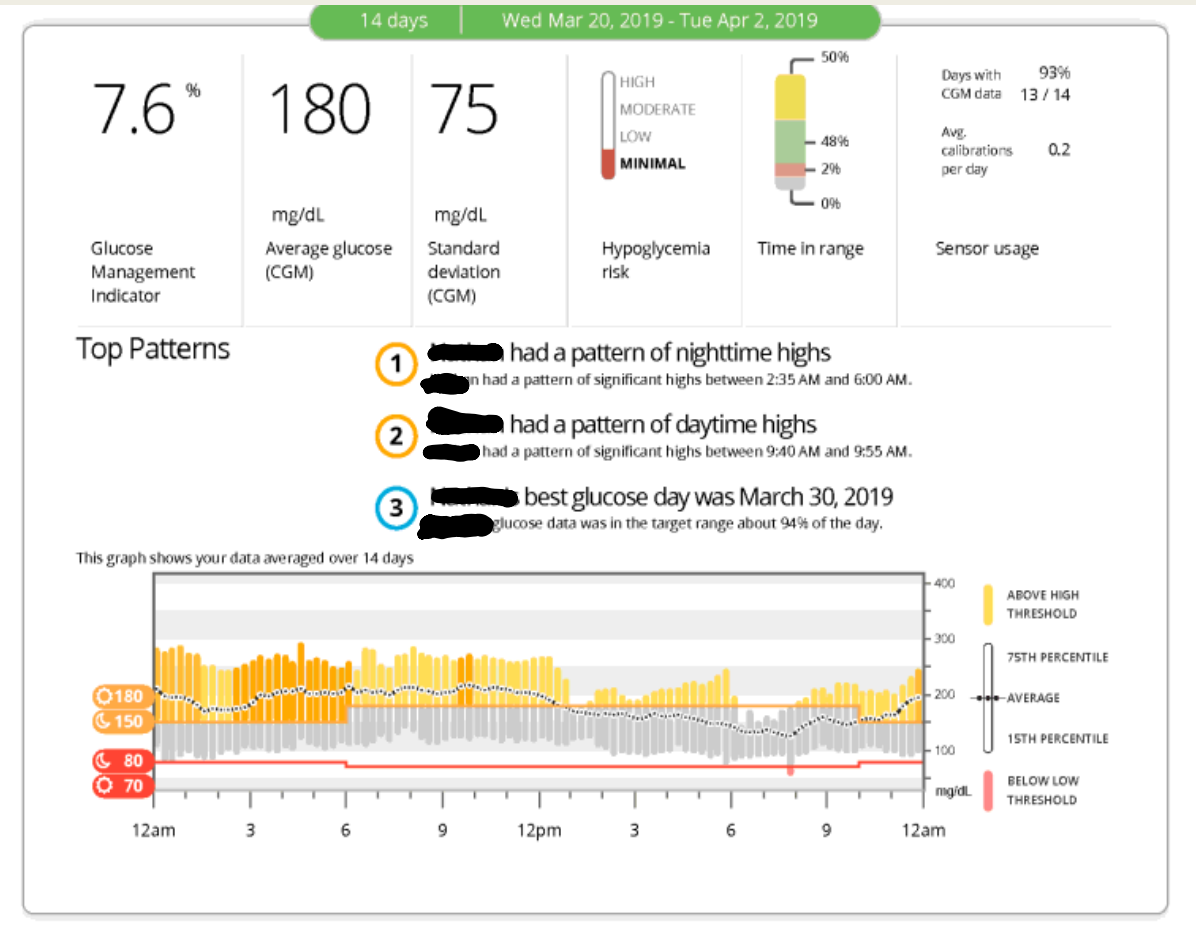
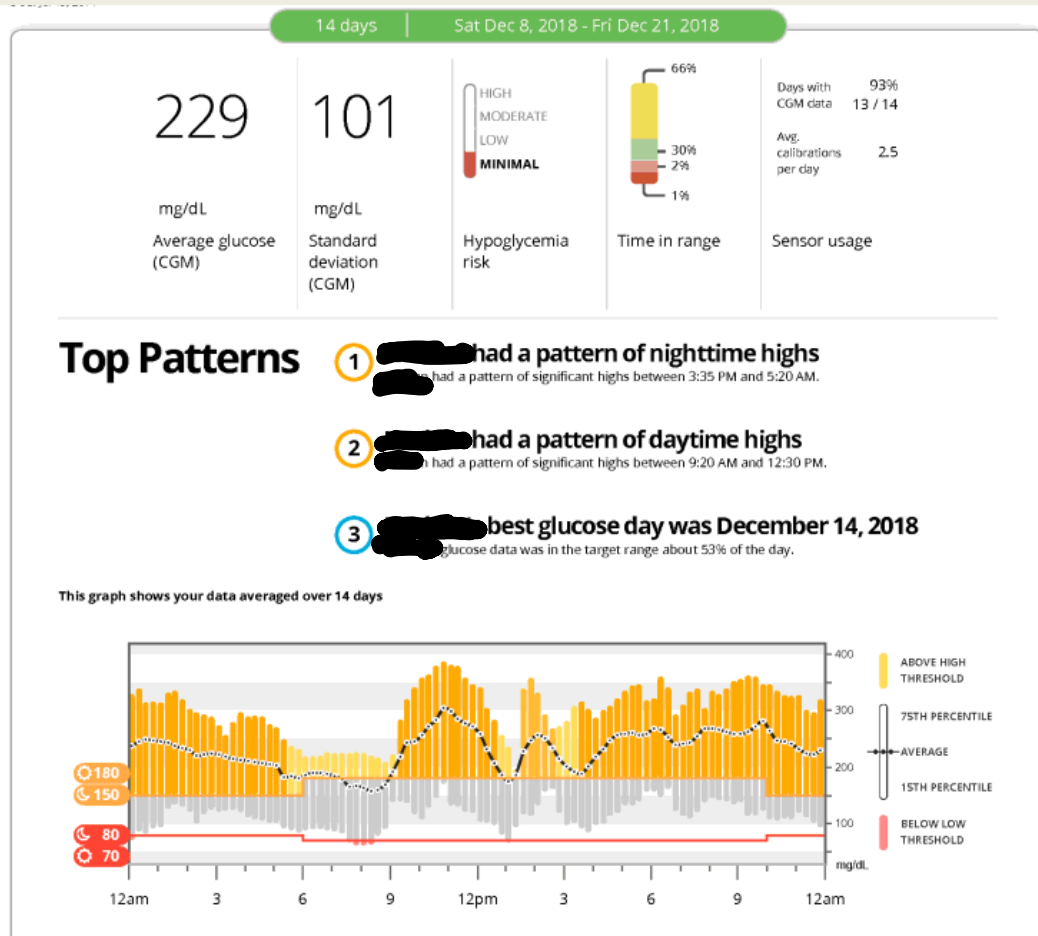


HbA1C is 8.0%
suggesting
average blood
sugar of about
185 mg/dL.

**Glucose meter
readings show an
average of 250
mg/dL with no
apparent lows.**



Contrast of CGM of two patients with similar average glucose on meters.



CGM Glucose Pattern Summary

March 19, 2019 - March 28, 2019 (10 Days)

LibreView

CGM Device: FreeStyle Libre Pro [N/A]% Compliant w/Calibration* 100% Time Worn

**Not applicable to FreeStyle Libre or FreeStyle Libre Pro which do not require calibration.*

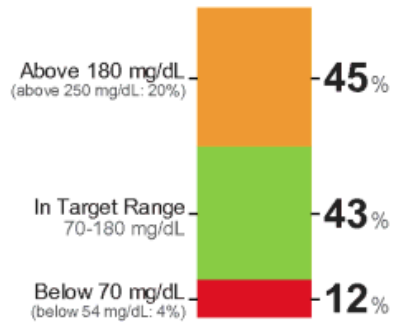
Summary

Average
Glucose

174
mg/dL

88-116*

Time In Range



Coefficient
of
Variation
(CV)

51.1 %

19-25*

Standard
Deviation
(SD)

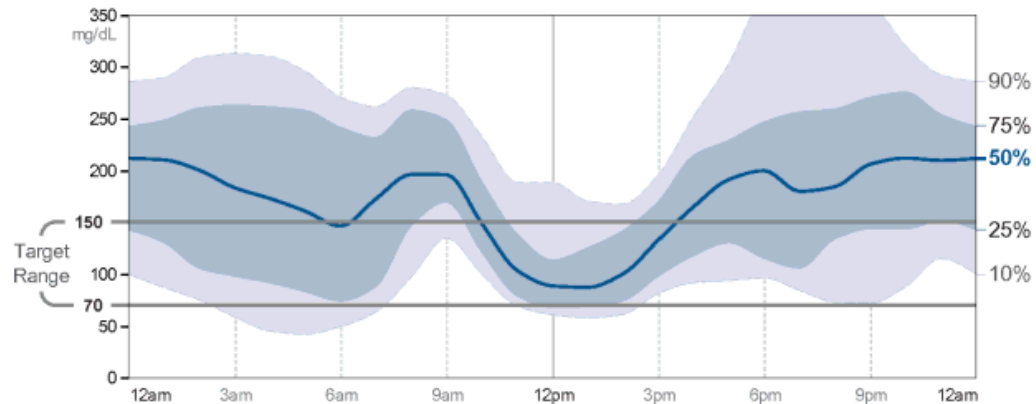
88.9
mg/dL

10-26*

**Reference ranges calculated from population without diabetes.*

Ambulatory Glucose Profile

Curves/plots represent glucose frequency distributions by time regardless of date

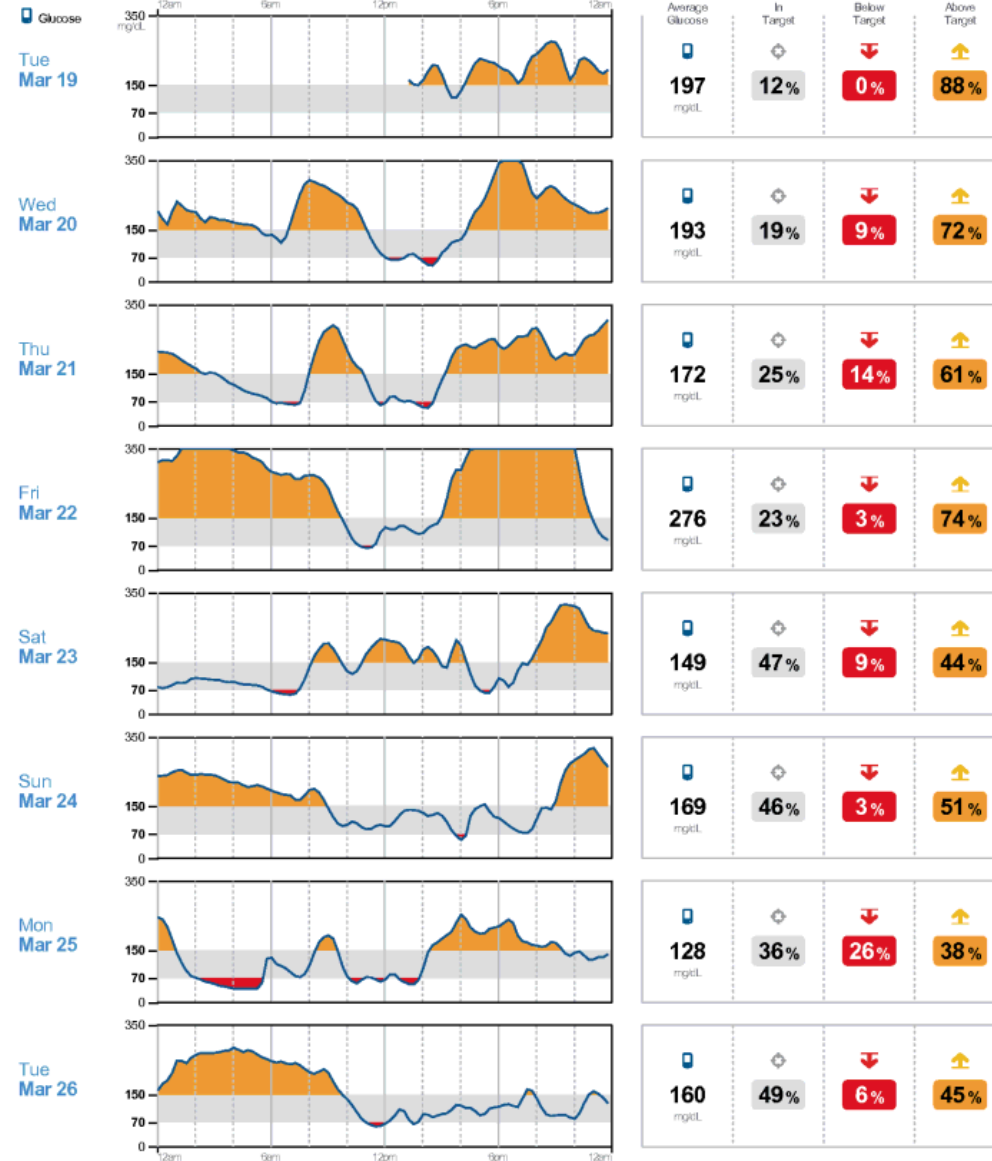


**CGM of patient with
no symptoms
of hypoglycemia.**

Daily Glucose Summary

March 19, 2019 - March 28, 2019 (10 Days)

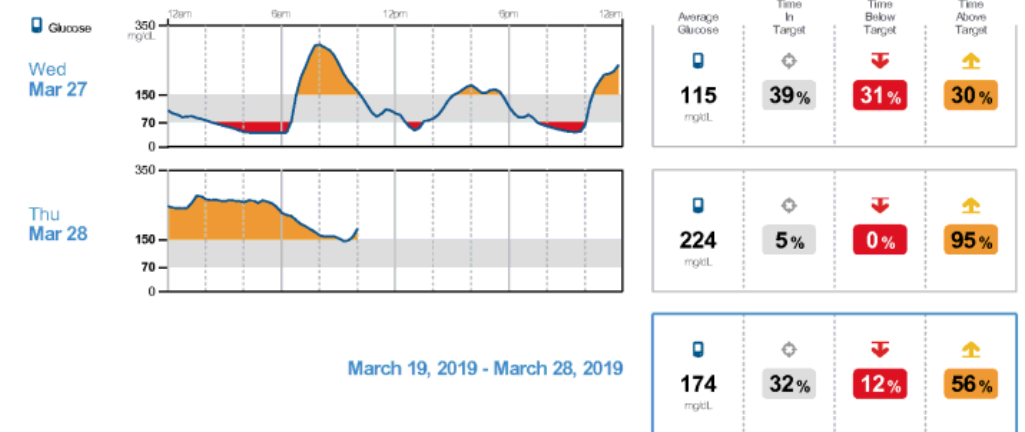
LibreView



Daily Glucose Summary

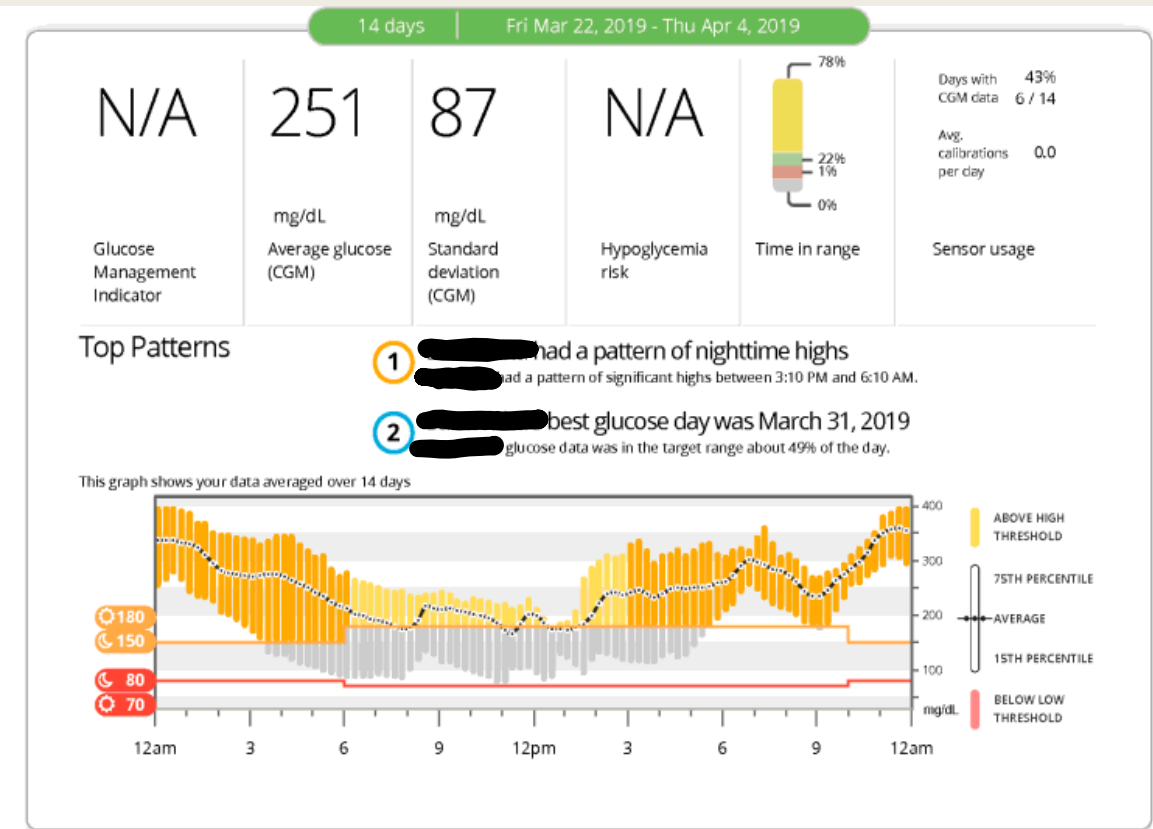
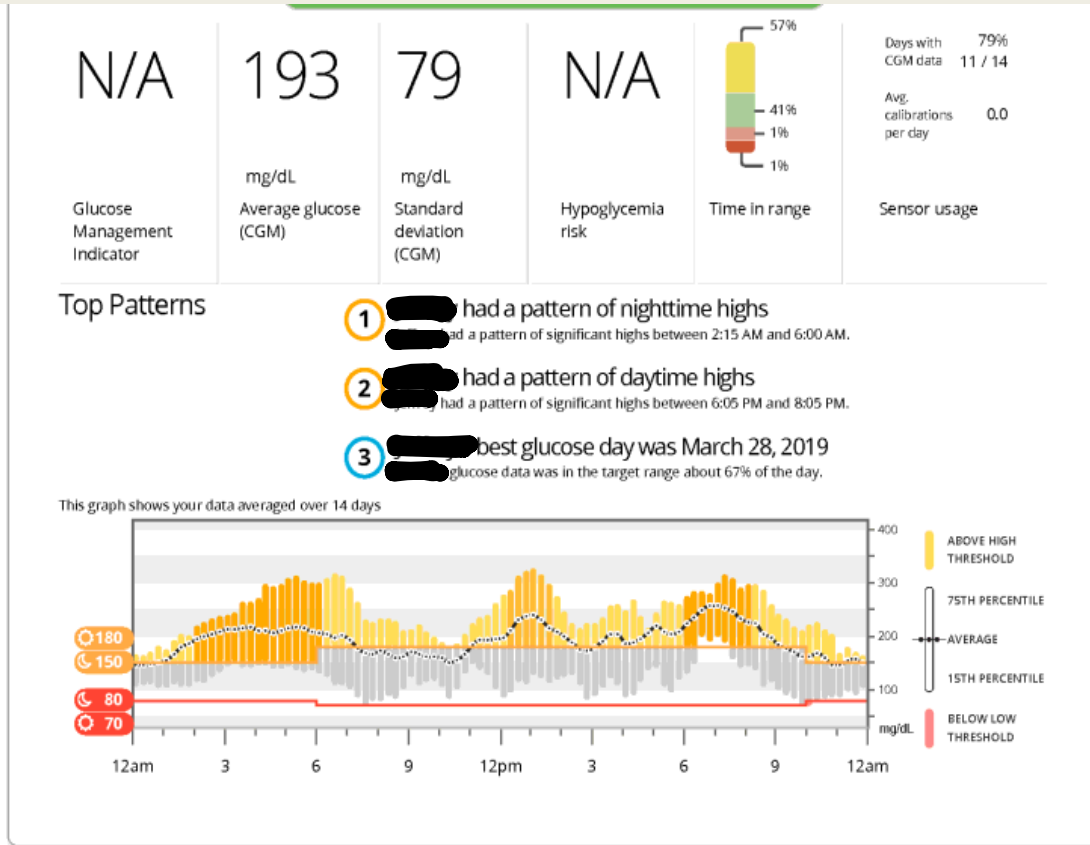
March 19, 2019 - March 28, 2019 (10 Days)

LibreView

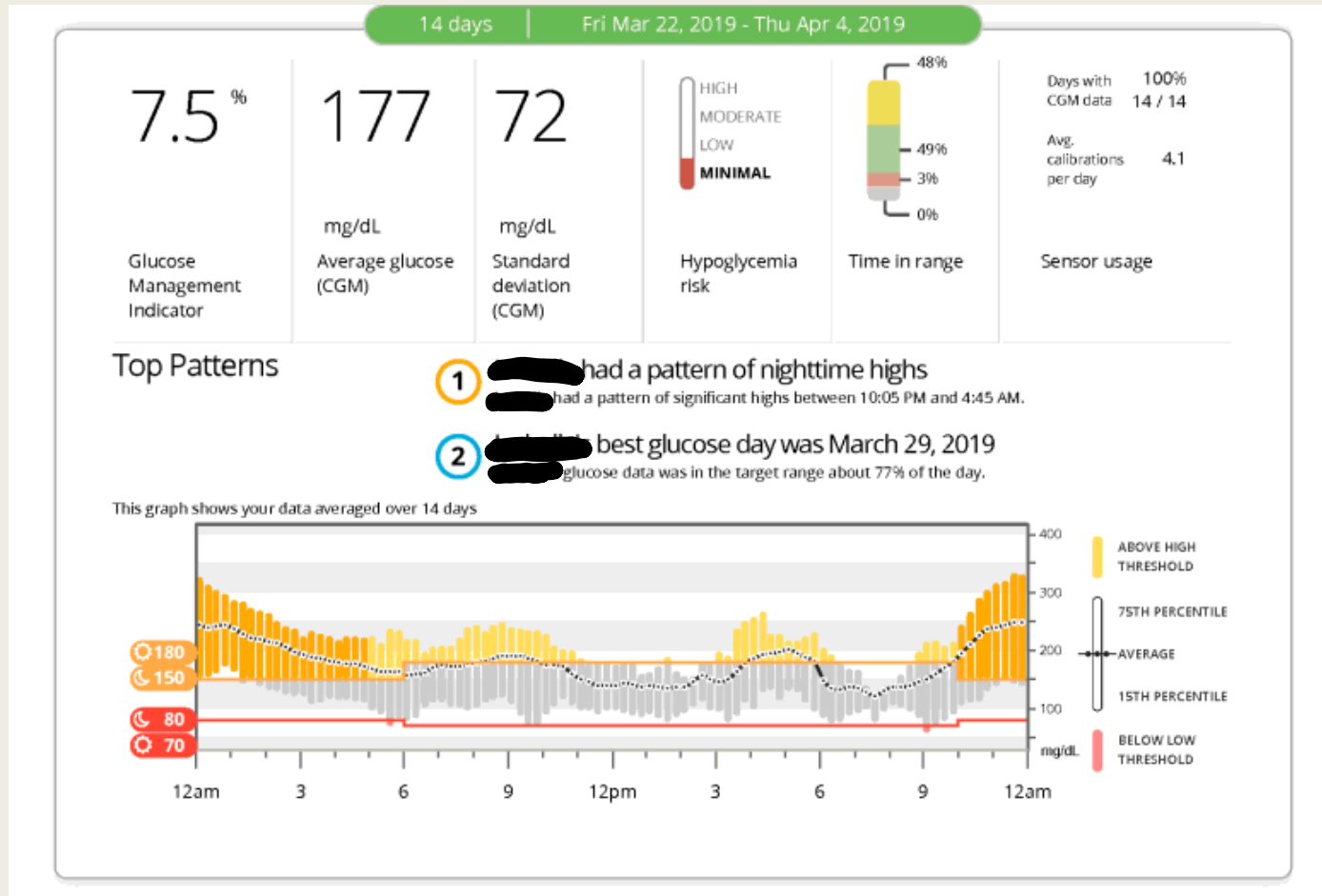


CGM of patient with no symptoms of hypoglycemia.

Patients with similar morning glucose levels



HbA1c higher than expected based on glucometer readings.



This patient uses an insulin pump.

Libere analysis with high variability.

CGM Glucose Pattern Summary *LibreView*

March 28, 2019 - April 4, 2019 (8 Days)

CGM Device: FreeStyle Libre Pro [N/A]% Compliant w/Calibration* 100% Time Worn

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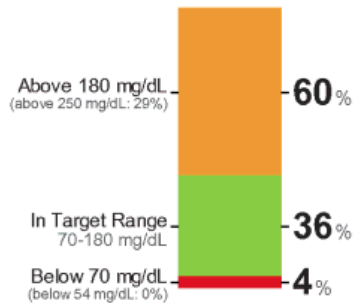
Summary

Average Glucose

215
mg/dL

88-116*

Time In Range



Coefficient of Variation (CV)

48%

19-25*

Standard Deviation (SD)

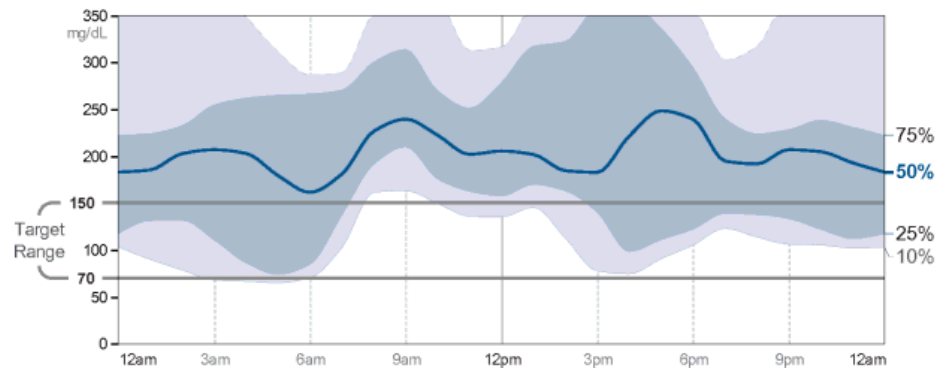
103.1
mg/dL

10-26*

**Reference ranges calculated from population without diabetes.*

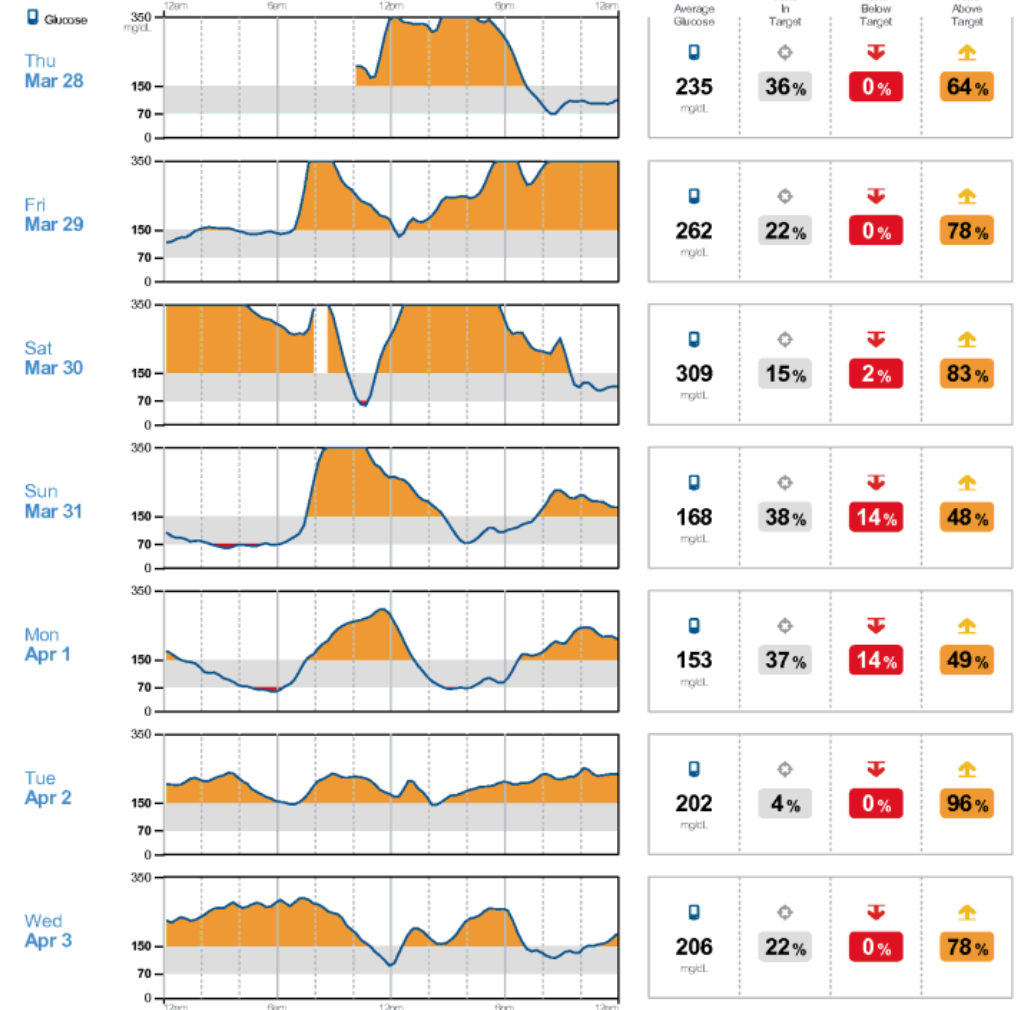
Ambulatory Glucose Profile

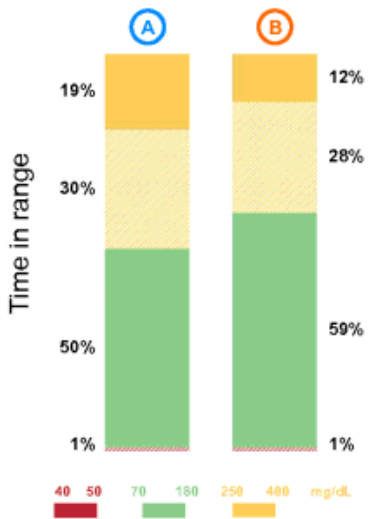
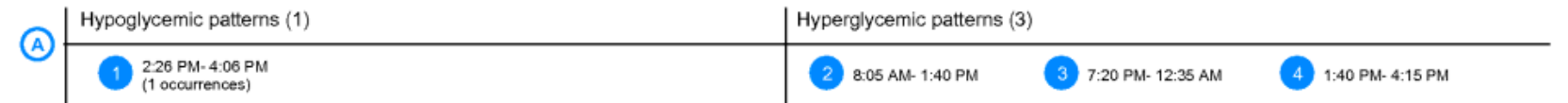
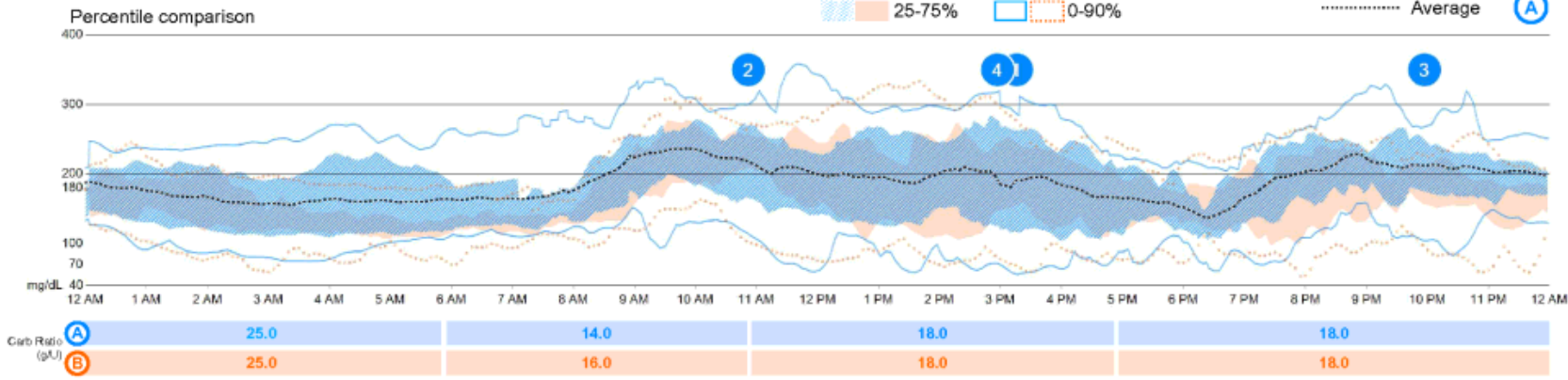
Curves/plots represent glucose frequency distributions by time regardless of date



Daily Glucose Summary *LibreView*

March 28, 2019 - April 4, 2019 (8 Days)





Auto Mode Exits	A	B
No Calibration	0	0
High SG Auto Mode Exit	11	5
Auto Mode max delivery	3	2
Auto Mode min delivery	1	0
BG required for Auto Mode	0	2
Sensor Algorithm Underread	1	3
Sensor Updating	0	0
No SG values	0	1
Sensor Expired	0	0
Auto Mode disabled by user	0	1
Alarms	1	0
Pump Suspend by user	0	0
Auto Mode Warm Up	0	0
Unidentified	0	0

Statistics	A	B
Auto Mode (per week)	83% (5d 19h)	82% (5d 17h)
Manual Mode (per week)	17% (1d 05h)	18% (1d 07h)
Sensor Wear (per week)	96% (6d 17h)	94% (6d 14h)
Average SG ± SD	187 ± 72 mg/dL	172 ± 62 mg/dL
Average BG	203 ± 81 mg/dL	203 ± 85 mg/dL
BG / Calibration (per day)	5.3 / 3.8	5.1 / 3.7
Total daily dose (per day)	44 units	43 units
Bolus amount (per day)	22U (50%)	20U (47%)
Auto Basal / Basal amount (per day)	22U (50%)	23U (53%)
Set Change	Every 3.0 days	Every 2.3 days
Reservoir Change	Every 3.0 days	Every 2.3 days
Meal (per day)	5.3	5.3
Carbs entered (per day)	303 ± 48 g	287 ± 33 g
Active Insulin time	3:30 hrs	3:30 hrs

Patient on 670 G insulin pump in auto mode.



Patient on
670 G
insulin pump
in auto mode.

Exit Reason Details

- 4,5 - High SG Auto Mode Exit**
Sensor glucose was high over 1 hour.
- 1 - Sensor Algorithm Underread**
BG was required to continue in Auto Mode.
- 2 - Auto Mode max delivery**
Auto Mode was at maximum delivery for 4 hours. BG was required to continue in Auto Mode.
- 3 - Auto Mode min delivery**
Auto Mode was at minimum delivery for 2:30 hours. BG was required to continue in Auto Mode.

Libre analysis on a “pumper”

Sometimes lows are due to not enough insulin!

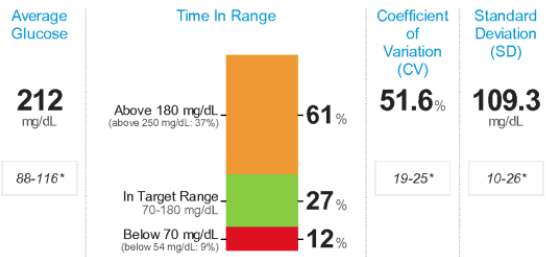
CGM Glucose Pattern Summary **LibreView**

March 21, 2019 - April 4, 2019 (15 Days)

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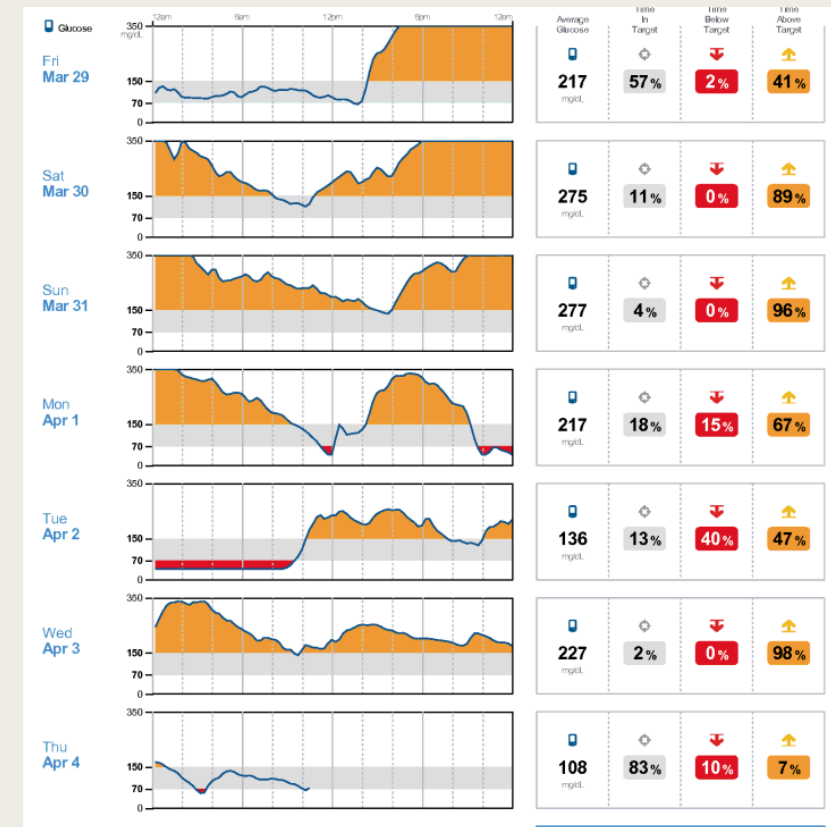
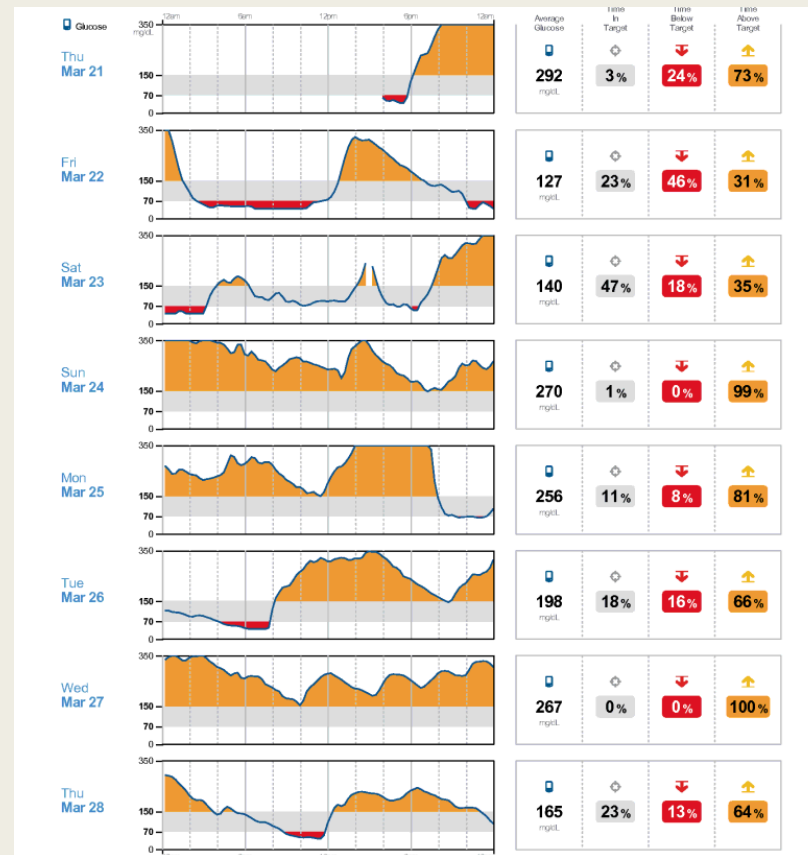
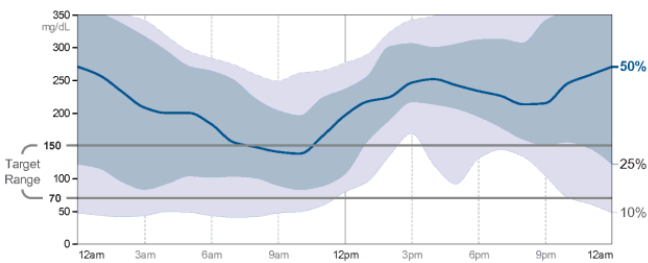
Summary



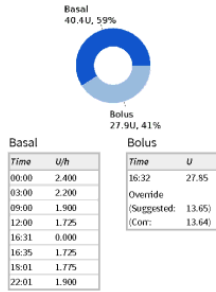
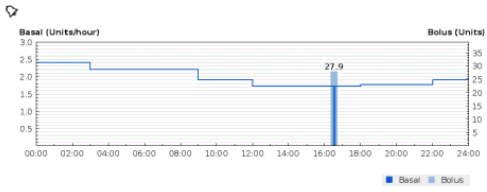
*Reference ranges calculated from population without diabetes.

Ambulatory Glucose Profile

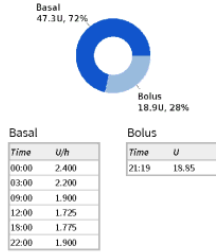
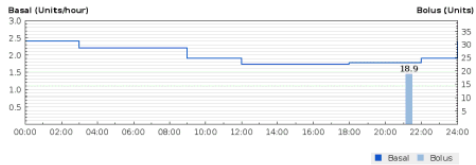
Curves/plots represent glucose frequency distributions by time regardless of date



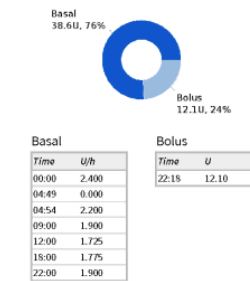
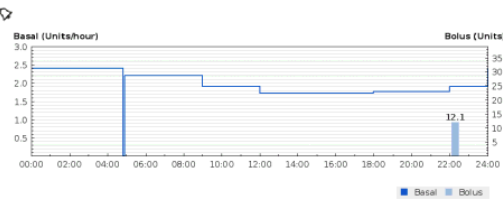
Sunday 3/17



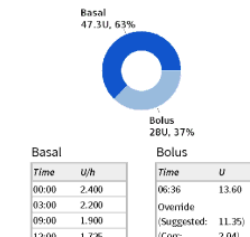
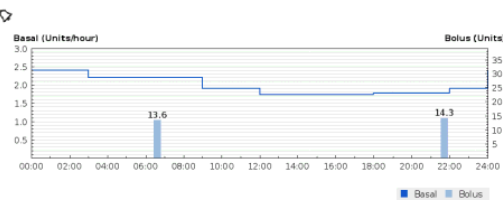
Saturday 3/16



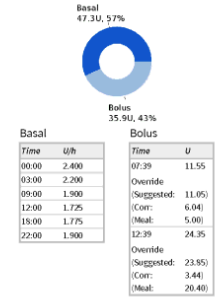
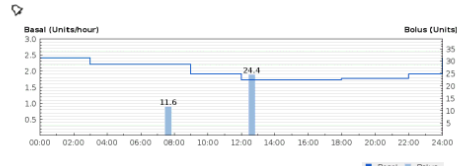
Friday 3/15



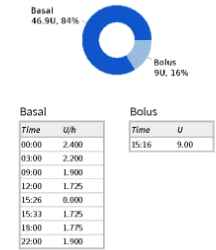
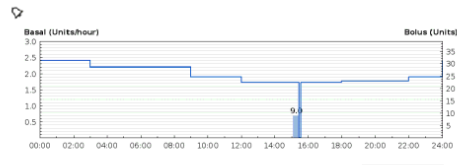
Thursday 3/14



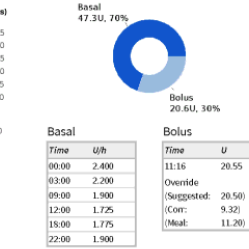
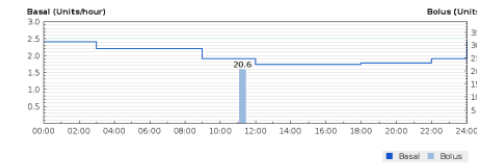
Wednesday 3/13



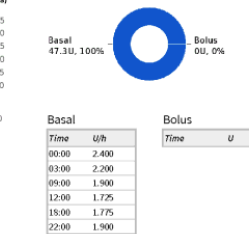
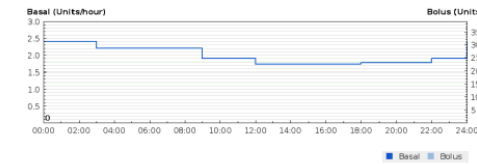
Tuesday 3/12



Monday 3/11



Sunday 3/10



Libre analysis on a "pumper"

Sometimes lows are due to not enough insulin!