

This **PANTHER Program®** tool for Dexcom CGM was created with the support of [danatech](#).

PANTHER^{TOOL}™ for DEXCOM Continuous Glucose Monitor

INSTRUCTIONS FOR USE

- 1 In the Clarity account set the “Patient Glucose Ranges” to:
Target Range: 70-180 mg/dL, very low: 54 mg/dL, very high: 250 mg/dL
- 2 Create reports → 2 weeks → Select: a. AGP Report; b. Daily Report
- 3 Follow this worksheet for step-by-step guidance on clinical assessment, user education and insulin dose adjustments.



STEP 1 **BIG PICTURE** (PATTERNS)

→ STEP 2 **SMALL PICTURE** (REASONS)

→ STEP 3 **PLAN** (SOLUTIONS)

STEP 1 **BIG PICTURE** (PATTERNS)

Use captūAGP® report to assess CGM use, glycemic metrics, and identify glucose patterns.

A Is the person using the CGM consistently?

% Time CGM Active:

If <90%, discuss why:

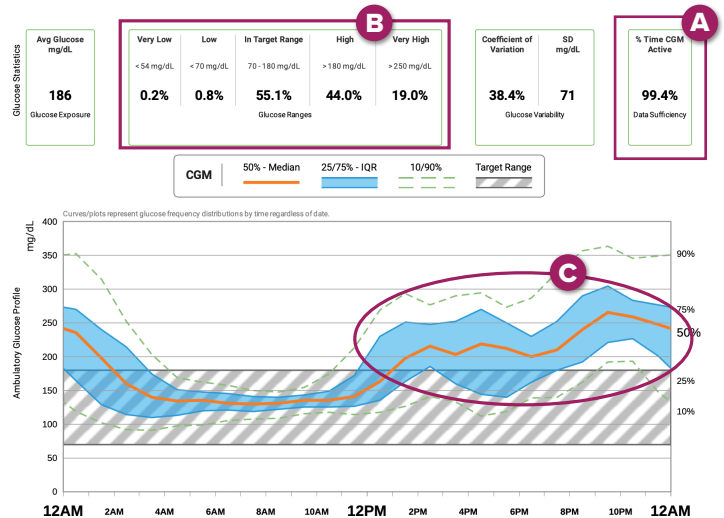
- Problems accessing supplies/sensors not lasting 10 days?
→ Contact Dexcom for replacement sensors
- [Skin problems or difficulty keeping sensor on?](#)
→ Rotate sensor insertion sites (arms, hips, buttocks, abdomen)
→ Use barrier products, tackifiers, overtopes and/or adhesive remover to protect skin

B Is the user meeting Glycemic Targets?

Time in Range (TIR) Goal is >70%
70-180 mg/dL (3.9-10.0 mmol/L) “Target Range”

Time Below Range (TBR) Goal is <4%
<70 mg/dL (<3.9 mmol/L) “Low” + “Very Low”

Time Above Range (TAR) Goal is <25%
>180 mg/dL (>10.0 mmol/L) “High” + “Very High”



C What are their patterns of hyperglycemia and/or hypoglycemia?

Ambulatory Glucose Profile compiles all data from reporting period into one day; shows median glucose with the orange line, and variability around the median with the shaded ribbon and dotted lines. Wider ribbon = more glycemic variability.

Identify the overall patterns by primarily focusing on the blue shaded area.

Hyperglycemia patterns: (eg: high glycemia at bedtime)

Hypoglycemia patterns:

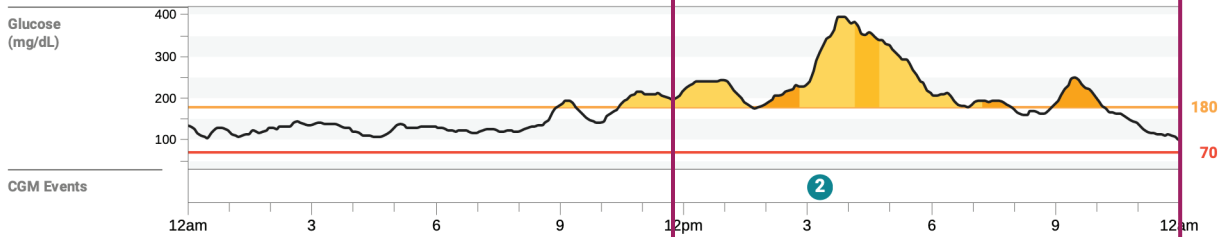
PANTHERPOINTERS™ FOR CLINICIANS

- 1 The goal of this therapy review is to increase Time in Range (70-180 mg/dL) while minimizing Time Below Range (<70 mg/dL)
- 2 Is the Time Below Range **more** than 4%?
If **YES**, focus on fixing patterns of **hypoglycemia**
If **NO**, focus on fixing patterns of **hyperglycemia**

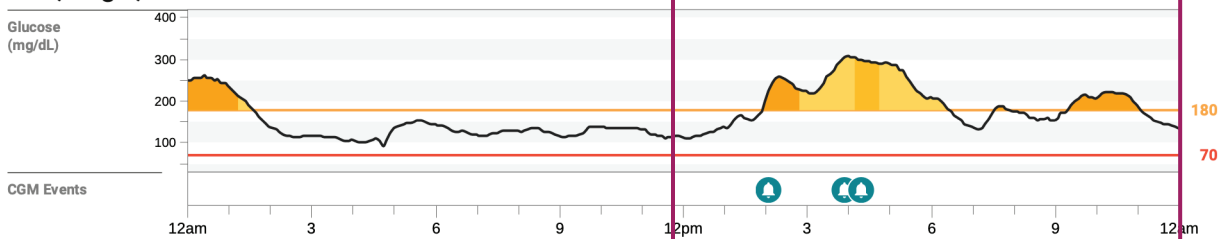
STEP 2 SMALL PICTURE (REASONS)

Use the **Daily Report** and discussion with the user to identify causes of the glycemic patterns identified in STEP 1 (hypoglycemia or hyperglycemia).

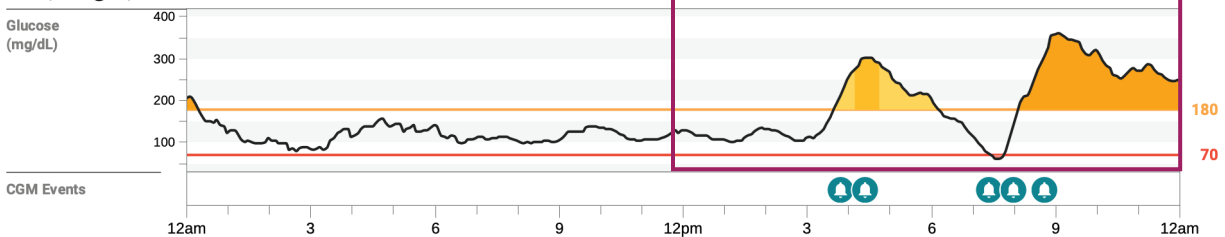
Thu, Aug 4, 2022



Wed, Aug 3, 2022



Tue, Aug 2, 2022



Identify the predominant 1-2 causes of the hypo- or hyperglycemia pattern.










Is the **hypoglycemia** pattern occurring:

- ☐ Fasting / Overnight?
- ☐ Around mealtime?
(1-3 hours after a meal or snack)
- ☐ Where low glucose levels follow
high glucose levels?
- ☐ Around or after exercise?

Is the **hyperglycemia** pattern occurring:

- ☐ Fasting / Overnight?
- ☐ Around mealtime?
(1-3 hours after a meal or snack)
- ☐ Where high glucose levels follow
low glucose levels?
- ☐ After a correction bolus was given?
(2-3 hours after correction insulin and
glucose remains high)

ADJUST insulin doses and EDUCATE

Hypoglycemia		Hyperglycemia
SOLUTION	PATTERN	SOLUTION
Decrease basal insulin dose by 10-20%	Fasting / Overnight 	Increase basal insulin dose by 10-20%
Assess carb counting accuracy, bolus timing, and meal composition. Weaken I:C Ratios by 10-20% (e.g. if 1:10, change to 1:12)	Around mealtime (1-3 hours after a meal/snack) 	Assess if meal bolus was missed. If yes, educate to give all meal boluses prior to eating. Assess carb counting accuracy, bolus timing, and meal composition. Strengthen I:C Ratios by 10-20% (e.g. from 1:10 to 1:8)
If hypos 2-3 hours after correction insulin is given: Reduce correction dose/weaken correction factor by 10-20% (e.g. if correction factor is 1:50, change to 1:60)	<div>  Where low glucose follows high glucose  </div> <div> Where high glucose follows low glucose   </div>	Ask how user is treating low glucose and educate: <ul style="list-style-type: none"> • Treat with 10-15g if on injections / manual pump therapy; treat with 5-10g if using Automated Insulin Delivery (AID)
Discuss current exercise strategies, educate on: <ul style="list-style-type: none"> • Small snacks as needed before and during exercise with no insulin if on injections or manual pump • Use temp basal feature on a manual pump OR exercise features on AID pump to reduce basal insulin delivery 1-2 hours before, during and/or after exercise • Reduce meal time insulin dose if meal is within 2 hours of exercise start 	<div>  Around or after exercise  </div>	
	After correction insulin was given (2-3 hours after correction insulin given)	 Increase high glucose correction dose/strengthen correction factor (e.g. if correction factor is 1:50, change to 1:40)

OPTIMIZE CGM Alerts


Personalize CGM alert settings with user to be **useful** and **actionable**.

To reduce alert burden:

- Turn OFF all predictive glucose alerts and rise/fall rate alerts.
- Consider turning off all alarms except for the low threshold alarm and set at the glucose level requiring low treatment.
- If high alarm is ON, set to an extreme high (e.g., 250-300 mg/dL) to reduce frequency. Turn off the high repeat, or set to 2 hours.

CGM alerts should result in action from the user most of the time (e.g. low glucose treatment, or high glucose correction). If the user is getting alerts but there is no action to take, change the alert setting and develop an action plan for how to respond to the alerts.

The Dexcom CGM alert settings can be found on the 'Overview' report on Dexcom Clarity.



Dexcom G6 Mobile App

CGM ID

Serial Number	iPhone G6
Uploaded On	September 9, 2022
Model	G6

Alert Settings for Device

General		
Low	Off	
Low Repeat	Off	15 min
High	Off	
High Repeat	Off	60 min
Fall Rate	Off	
Rise Rate	Off	
Urgent Low	On	55 mg/dL
Urgent Low Repeat	On	30 min
Urgent Low Soon	Off	
Urgent Low Soon Repeat	Off	30 min
Signal Loss	On	20 min

Great job using **Dexcom!**

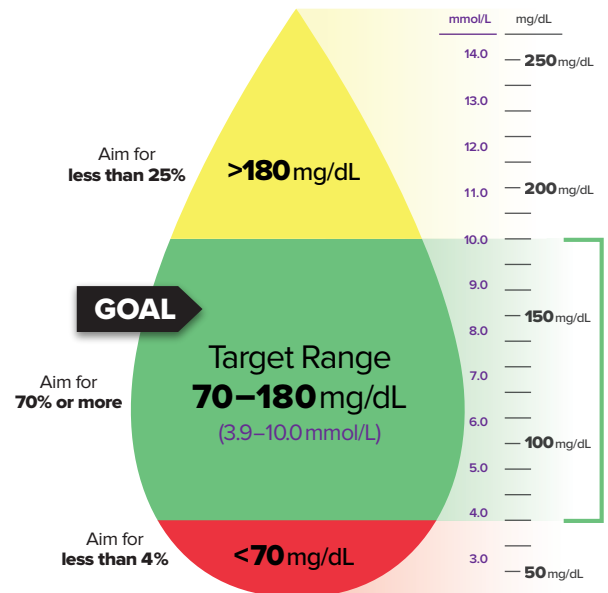
Using a Continuous Glucose Monitor (CGM) can help you achieve your diabetes goals.

The American Diabetes Association suggests aiming for **70%** of your glucose levels to be between **70-180 mg/dL** (3.9–10.0 mmol/L), called **Time in Range** or **TIR**. If you are not currently able to reach 70% TIR, don't be discouraged! Start from where you are and set smaller goals to increase your TIR. Any increase in your TIR is beneficial to your lifelong health!



REMEMBER...

Don't over-analyze each individual glucose value you receive from the Dexcom CGM. Instead, **focus on the glucose trends**. If you notice a similar pattern of highs or lows happening each day, talk to your doctor or educator about how to help.



TIPS for DEXCOM CGM

- **Rotate where you place your sensor** to keep your skin healthy. If you have problems with skin rashes or difficulty keeping your sensor on, check out our skin solutions: PANTHERprogram.org/skin-solutions
- **High glucose levels >300 mg/dL for 1-2 hours?** Check ketones first! If ketones are elevated (>0.6 on a blood meter OR mod/large on a urine stick), give correction insulin from a syringe or pen (not through a pump) and contact your doctor or educator for help.
- **Give your insulin dose before eating**, ideally 10-15 minutes before all meals and snacks.
- **Are you getting too many alerts?** Sometimes less is more! Personalize your alerts so you only get alerts that are useful to you and require a response most of the time (e.g., low treatment, high glucose correction)

