PANTHERTOOL® for

OMNIPOD® 5

Automated Insulin Delivery System

Dexcom G6 and FreeStyle Libre 2 Plus sold separately and requires a separate prescription.

INSTRUCTIONS FOR USE

1 Download user's device to My.Glooko.com → Set report settings to Target Range 3.9-10.0 mmol/L

2 Create reports → 2 weeks → Select: a. CGM Summary; b. Week View; and c. Devices

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)

OVERVIEW using C|A|R|E|S Framework

C | How it **CALCULATES**

- Automated basal insulin delivery calculated from total daily insulin, which is updated with each Pod change (adaptive basal rate).
- Calculates dose of insulin every 5 min based on glucose levels predicted 60 minutes into future.

A | What you can **ADJUST**

- Can adjust the algorithm's Target Glucose (6.1, 6.7, 7.2, 7.8, 8.3 mmol/L) for adaptive basal rate.
- Can adjust I:C ratios, correction factors, active insulin time for bolus settings.
- Cannot change basal rates (programmed basal rates are not used in Automated Mode).
- Can use Activity Feature for exercise or times desiring reduced insulin delivery.

R | When it **REVERTS** to manual mode

- System may revert to Automated Mode: Limited (static basal rate determined by system; not based on CGM value/trend) for 2 reasons:
  1. If CGM stops communicating with Pod for 20 min. Will resume full automation when CGM returns.
  2. If an Automated Delivery Restriction alarm occurs (insulin delivery suspended or at max delivery too long). Alarm must be cleared by user and enter Manual Mode for 5 min. Can turn Automated Mode back on after 5 minutes.

E | How to **EDUCATE**

- Bolus before eating, ideally 10-15 minutes prior.
- Tap Use Sensor in bolus calculator to add glucose value and trend into bolus calculator.
- Treat mild hypoglycaemia with 5-10g carb to avoid rebound hyperglycaemia and WAIT 15 min before re-treating to give glucose time to rise.
- Infusion site failure: Check ketones and replace Pod if hyperglycaemia persists (e.g. 14 mmol/L for > 90 min) despite correction bolus. Give syringe injection for ketones.

S | **SENSOR/SHARE** characteristics

- **Dexcom G6**
  - Must use Dexcom G6 app on smartphone to start CGM sensor (cannot use Dexcom Receiver or Omnipod 5 Controller).
  - Use Dexcom G6 app to receive sensor alerts and access Dexcom Share for remote monitoring of CGM data.
- **FreeStyle Libre 2 Plus**
  - Use Omnipod 5 Controller to start/stop sensor and manage sensor alert settings (cannot use the FreeStyle LibreLink App).
  - Sensor glucose values are only displayed on the Omnipod 5 Controller. There is no option for remote monitoring of CGM data.

PANTHERPOINTERS® FOR CLINICIANS

1. Focus on behavior: Wearing the CGM consistently, giving all boluses, etc.
2. When adjusting insulin pump settings, focus primarily on Target Glucose and I:C ratios.
3. To make system more aggressive: lower the Target Glucose, encourage user to give more boluses and intensify bolus settings (e.g. strengthen I:C ratio) to increase total daily insulin (which drives the automation calculation).
4. Avoid overthinking the automated basal delivery. Focus on the overall Time in Range (TIR), and optimising system use, bolus behaviours and bolus doses.

PANTHER®
Diabetes Technology. Deciphered.

This PANTHER Program® tool for Omnipod® 5 was created with the support of Insulet

CGM Summary Report to assess system use, glycaemic metrics, and identify glucose patterns.

A Is the person using the CGM and Automated Mode?

% Time CGM Active: _____

If <90%, discuss why:

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

SCAN TO VIEW: pantherprogram.org/skin-solutions

Automated Mode %: _____

If <90%, assess why:

- Emphasise goal is to use Automated Mode as much as possible

Automated: Limited %: _____

If >5%, assess why:

- Due to gaps in CGM data?
  →Review device placement: wear Pod and CGM on same side of body, in "line of sight" to optimise Pod-CGM communication
- Due to automated delivery restriction (min/max delivery) alarms?
  →Educate user to clear alarm, check "Blood Glucose (BG)" as needed, and after 5 minutes switch mode back to Automated Mode (will not return to Automated Mode automatically)

B Is the user giving meal boluses?

Number of Diet Entries/Day? _____

Is the user giving at least 3 "Diet Entries/Day" (boluses with carbs added)?

→If not, ASSESS for missed meal boluses

C Is the user meeting Glycaemic Targets?

Time in Range (TIR) _____ Goal is >70%
3.9-10.0 mmol/L "Target Range"

Time Below Range (TBR) _____ Goal is <4%
< 3.9 mmol/L "Low" + "Very Low"

Time Above Range (TAR) _____ Goal is <25%
>10.0 mmol/L "High" + "Very High"

D What are their patterns of hyperglycaemia and/or hypoglycaemia?

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

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

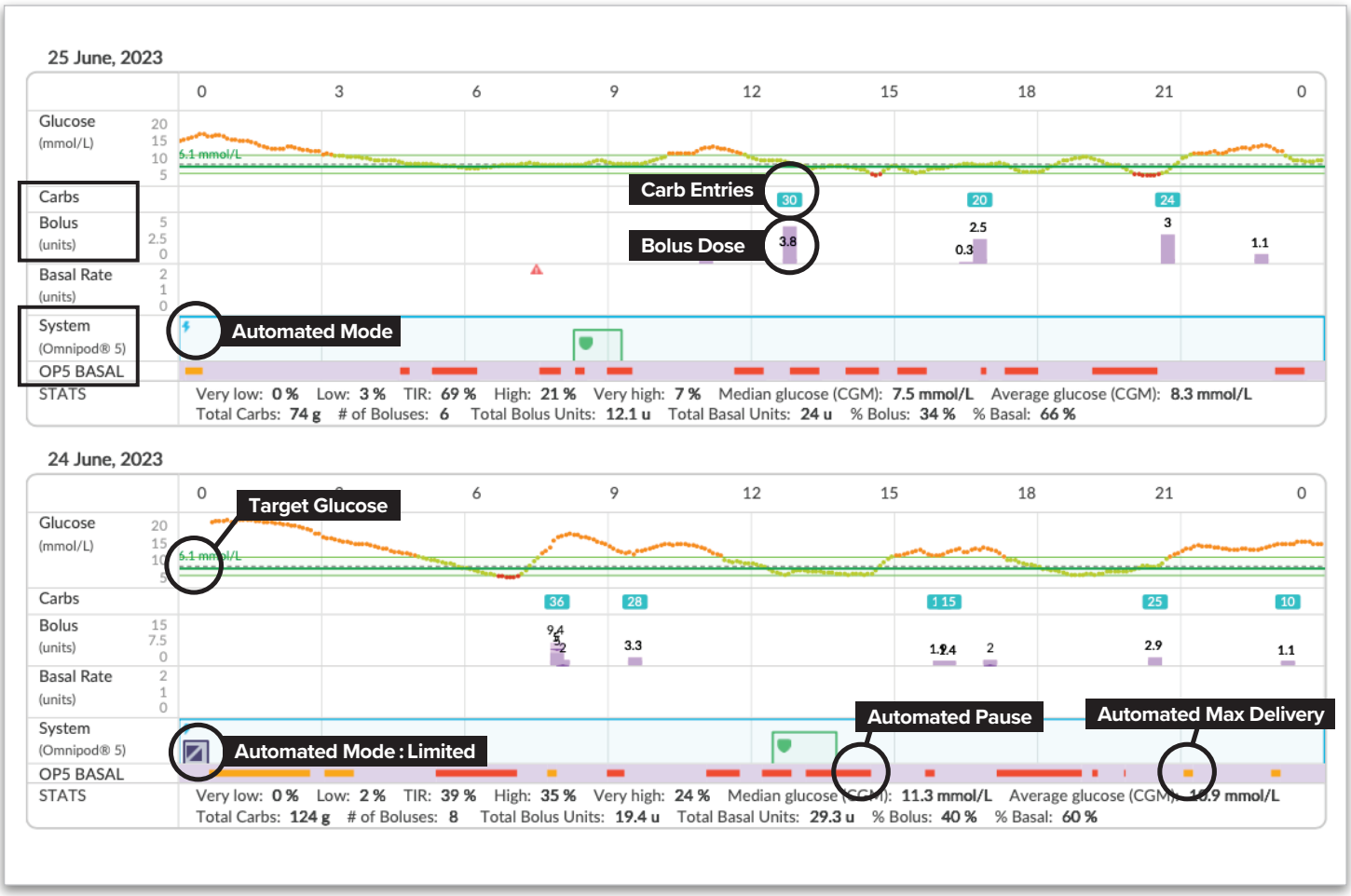
Hyperglycaemia patterns: (eg: high glyceamia at bedtime)

Hypoglycaemia patterns:

PANTHERPOINTERS® FOR CLINICIANS

1. The goal of this therapy review is to increase Time in Range (3.9-10.0 mmol/L) while minimising Time Below Range (<3.9 mmol/L)
2. Is the Time Below Range **more** than 4%?
   If **YES**, focus on reducing patterns of **hypoglycaemia**
   If **NO**, focus on reducing patterns of **hyperglycaemia**

Use the **Week View** and discussion with the user to identify causes of the glycaemic patterns identified in STEP 1 (hypoglycaemia or hyperglycaemia).



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

Is the **hypoglycaemia** pattern occurring:

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

Is the **hyperglycaemia** pattern occurring:

- ☐ Fasting / Overnight?
- ☐ Around mealtime? (1-3 hours after meals)
- ☐ Where high glucose levels follow low glucose levels?
- ☐ After a correction bolus was given? (1-3 hours after correction bolus)

Hypoglycaemia		Hyperglycaemia
SOLUTION	**PATTERN**	**SOLUTION**
Raise Target Glucose (algorithm target) overnight (highest is 8.3 mmol/L)	**Fasting / Overnight** 	Lower Target Glucose overnight (lowest is 6.1 mmol/L)
Assess carb counting accuracy, bolus timing, and meal composition. Weaken I:C Ratios by 10-20% (e.g. if 1:10g, change to 1:12g)	**Around mealtime** (1-3 hours after meals) 	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 1:10g to 1:8g). Turn the reverse correction OFF.
If due to bolus calculator over-rides, educate user to follow the bolus calculator and avoid overriding to give more than recommended. There may be a lot of Insulin on Board (IOB) from AID that user is not aware of. Bolus calculator factors in IOB from increased AID when calculating correction bolus dose. Weaken correction factor by 10-20% (e.g. from 3mmol/L to 3.5 mmol/L) if hypos 2-3 hours after correction bolus.	**Where low glucose follows high glucose** 	
	Where high glucose follows low glucose 	Educate to treat mild hypoglycaemia with fewer grams of carbs (5-10g)
Use the Activity feature 1-2 hours before exercise begins. Activity feature will temporarily reduce insulin delivery. It can be used during times of increased risk of hypoglycaemia. To use Activity feature, go to Main Menu → Activity	**Around or after exercise** 	
	After a correction bolus was given (1-3 hours after correction bolus)	Strengthen correction factor (e.g. from 3 mmol/L to 2.5 mmol/L)

ADJUST insulin pump settings** and EDUCATE.

Most impactful insulin dose settings to change:

1. **Target Glucose (for adaptive basal rate)** Options: 6.1, 6.7, 7.2, 7.8, 8.3 mmol/L
   Can program different targets for different times of day
2. **I:C Ratios** It is common to need stronger I:C Ratios with AID
3. **Correction Factor & Active Insulin Time**
   These will only influence bolus calculator doses; has no impact on automated insulin

****BEFORE making changes** to insulin delivery settings, please confirm insulin settings within the user's Omnipod 5 controller.

To change settings, tap the main menu icon ☰ in top-left corner of **Omnipod 5** controller: → **Settings** → **Bolus**

Insulet Omnipod® 5 System

General

Active Insulin Time	2.5 hours

Called ***Duration of Insulin Action*** in Omnipod 5 controller

Bolus

Min BG for Bolus Calc	3.9 mmol/L
Extended Bolus	ON
Reverse Correction	OFF
Max Bolus	14 U

Extended Bolus is **NOT** available in Automated Mode, only Manual Mode.

When reverse correction is ON, the bolus calculator will suggest a reduced meal bolus if current glucose level is below the target glucose. To ensure full meal bolus dose is suggested, turn reverse correction OFF.

Basal

Programmed basal rates for Manual Mode, **NOT** used in Automated Mode

Basal 1 Active

00:00 (24 hr)	0.75 Units/hr
Total	18 Units

Basal

Max Basal rate is for Manual Mode. It is **NOT** used in Automated Mode. Temporary Basal Feature **NOT** available in Automated Mode.

Max Basal Rate	2.5 U/hour
Temporary Basal Enabled	ON
Active basal program	Basal 1

Insulin:Carb ratios

Profile Active

00:00 (11 hr)	8 g/Unit
11:00 (4 hr)	8 g/Unit
15:00 (9 hr)	8 g/Unit

Sensitivity (ISF, correction)

Called ***Correction Factor*** in Omnipod 5 controller

Profile Active

00:00 (5 hr)	2.3 mmol/L
05:00 (6 hr)	2.3 mmol/L
11:00 (4 hr)	2.3 mmol/L
15:00 (9 hr)	2.3 mmol/L

BG target range

Called ***Target Glucose*** in Omnipod 5 controller

Profile Active

00:00 (24 hr)	6.1 mmol/L (+0/-0)

BG correction threshold

Called ***Correct Above*** in Omnipod 5 controller. A correction bolus will be calculated for glucose values above this value, aiming for the target glucose value. For most aggressive bolus doses, set as the same value as the target glucose.

Profile Active

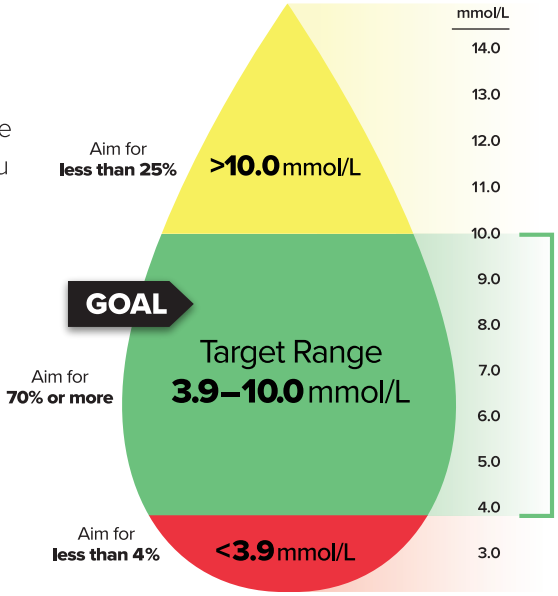
00:00 (24 hr)	6.1 mmol/L

AFTER VISIT SUMMARY

Great job using **Omnipod® 5!**

Using this system may help you achieve your diabetes goals.

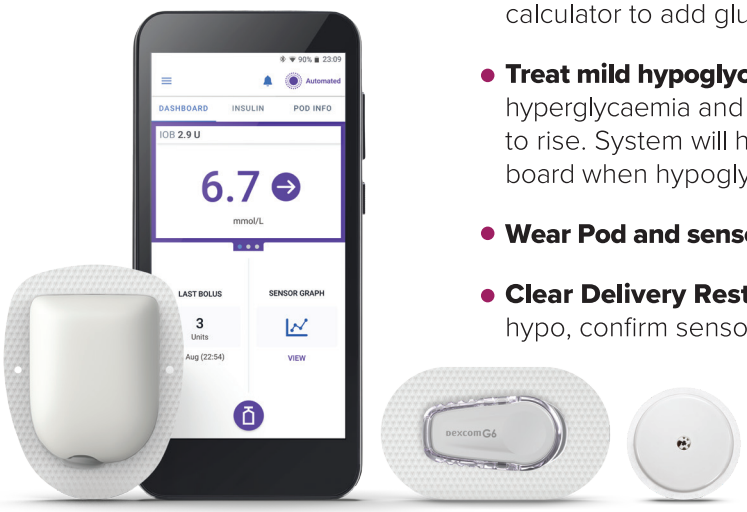
International Consensus Guidelines suggests aiming for **70%** of your glucose levels to be between **3.9–10.0 mmol/L**, called **Time in Range** or **TIR**. If you are not currently able to reach 70% TIR, don't be discouraged! Start from where you are and set smaller goals to increase your TIR. Any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



REMEMBER...
Don't overthink what the Omnipod 5 is doing in the background. **Focus on what *you* can do.** See helpful tips below...

TIPS for Omnipod 5

- **Unexplained Hyperglycaemia >14-15 mmol/L for 1-2 hours?** Check ketones first! If ketones are moderate to large (> 1.0 mmol/L), give syringe injection of insulin and replace Pod.
- **Bolus before eating**, ideally 10-15 minutes before all meals and snacks.
- **Do not override the bolus calculator**: Correction bolus doses may be smaller than expected due to insulin on board from the adaptive basal rate.



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- **Give correction boluses for hyperglycaemia**: Tap Use sensor in bolus calculator to add glucose value and trend into bolus calculator.
- **Treat mild hypoglycaemia with 5-10g carb** to avoid rebound hyperglycaemia and WAIT 15 min before re-treating to give glucose time to rise. System will have likely suspended insulin, resulting in little insulin on board when hypoglycaemia occurs.
- **Wear Pod and sensor on same side of body** so they don't lose connection.
- **Clear Delivery Restriction alarms immediately**, troubleshoot hyper/hypo, confirm sensor accuracy and switch back to Automated Mode.

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SCAN TO VISIT
PANTHERprogram.org

Have questions about Omnipod 5?

omnipod.com

Omnipod customer support
0800 011 6132

Have questions about your Dexcom or FreeStyle Libre CGM?

dexcom-intl.custhelp.com
Dexcom customer support: **0800 031 5761**
Dexcom technical support: **0800 031 5763**

freestyle.abbott/uk-en/support.html
FreeStyle Libre customer support: **0800 170 1177**
FreeStyle Libre technical support: **0800 612 3006**