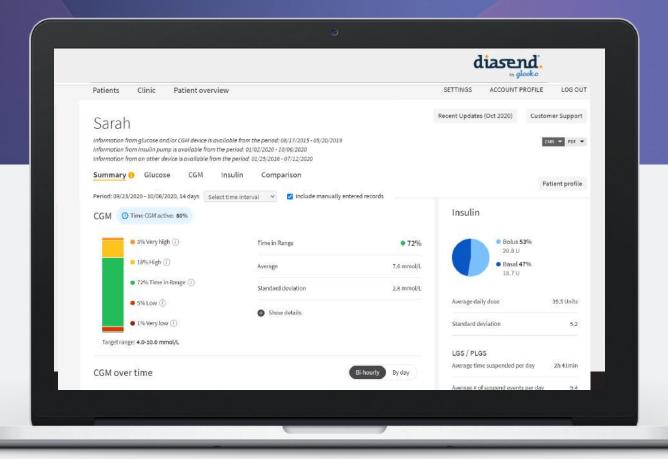
Analysing Diasend Reports



A step-by-step approach

For Healthcare Professionals



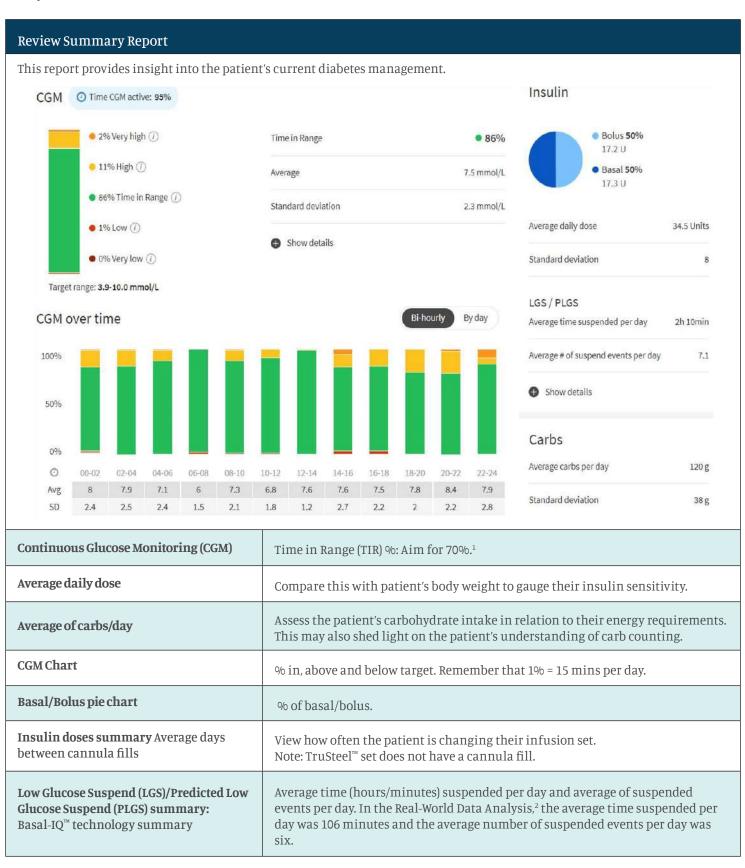
diasend[®] **by Glooko** is a cloud-based, stand-alone system for easy uploading and integration of information from insulin pumps such as the Tandem[™] t:slim $X2^{\mathbb{M}}$ insulin pump, Continuous Glucose Monitoring (CGM) devices and blood glucose (BG) meters.

It is designed as a universal report system, and can be used by anyone with diabetes and their healthcare team, to assist diabetes management. The diasend by Glooko clinic and personal reports are identical, so that the same information can be seen by the healthcare professional and the person living with diabetes.

Analysing Diasend Reports

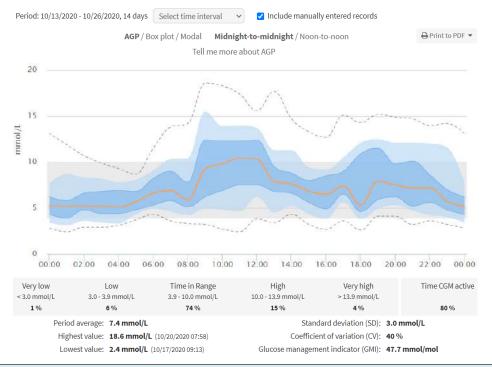
Identifying patterns using diasend reports

This document is designed to help pump trainers use diasend reports to spot trends and analyse data. While it does not include all diasend reports, it identifies and explores the most common reports used for analysis.



Review CGM/Standard Day tab (AGP)

This report helps to assess overall glycaemia and identify patterns/trends of hypoglycaemia or hyperglycaemia.



To easily look for overnight trend, change the view to "Noon-to-noon."

Show active profile. Note: if you clicked on "Noon-to-noon" the active profile will still show "midnight-to-midnight."

Look at the dark blue graph area because this is where 50% of the CGM values lie.

Dotted lines are only the outliers.

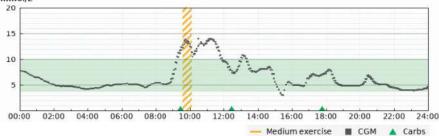
Very low, Low, TIR, High. Note: Make sure to add "Very low & Low" to know the real % below 4.0 mmol/L.

According to Battelino & Associates in 2019¹, target percentages are:

- Time Above Range: <5% above 13.9 mmol/L
- Time Above Range: <25% above 10 mmol/L
- Time in Range: >70% between 3.9-10.0 mmol/L
- Time Below Range: <4% below 3.9 mmol/L
- Time Below Range: <1% below 3 mmol/L

View CGM/Day by Day

This report is very useful if you are suspecting a pattern and would like to have a "clean" vision of the daily CGM trending.

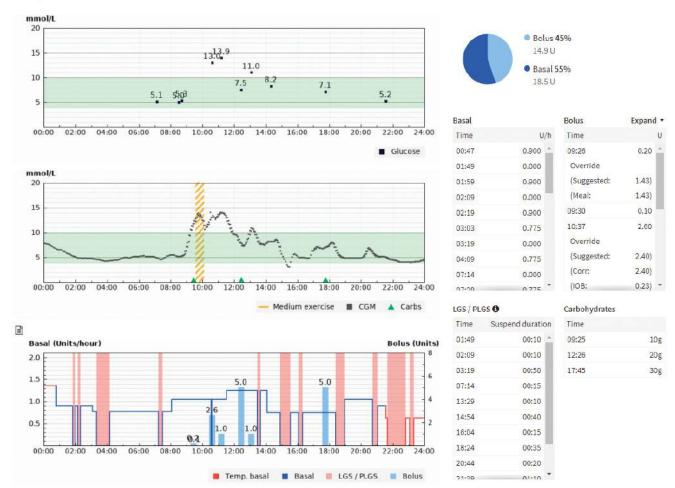


View the day-by-day CGM tracing to identify patterns/trends. Carb intake and exercise is also displayed.

Analysing Diasend Reports

Review Comparison Day by Day

This report helps explore the potential reasons for the patterns/trends identified in the CGM/Day by Day. Sunday 10/25



Consider CGM graph and analyse bolus timing & carbs (green triangle) to match CGM graph. If it does not match, review the bolus timing with the patient.

Recording Carbs to treat hypoglycaemia: Diasend will report carb grams entered into the bolus calculator when a bolus was not actually completed.

Steps:

- Tap "Bolus"
- Enter Grams of Carb
- Tap blue check mark in upper right corner
- Tap white arrow in upper left corner to exit the bolus calculator to avoid incomplete bolus alert

This will record the grams of carbohydrate but the bolus will not be delivered. On the same note: a patient that entered extreme amount of carbs without bolus could simply be doing the same thing (above). Remember that diasend is a "Read Only Program" so any time a value is entered into the pump, you will see it captured on the report, even if a bolus was not given.

In the "Bolus" tab, view Meal, Correction, and IOB to assess if the bolus calculation were over-ridden.

If you require more information, simply click the "pump alarm icon" and/or the "events icon" on the left side of the graph.

View Insulin/Bolus Adherence

This report will show all the deviating boluses (overrides) detected in the bolus calculator.

Period: 10/06/2020 - 10/19/2020, 14 days | Select time interval

Print to PDF 🔻

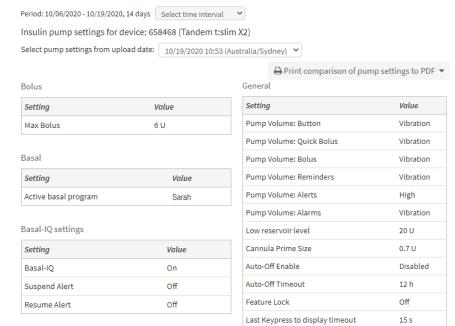
10 deviating boluses detected out of 81 bolus calculator assisted boluses (out of 81 boluses in total)

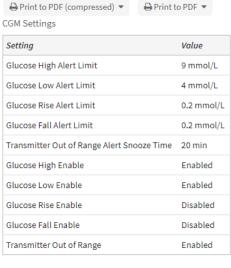
Date	Time	Delivered (U)	Calculated (U)	Bolus Type	Duration (min)	Pre-Bolus BG (mmol/L)	Post-Bolus BG (mmol/L)
10/09/2020	19:32	1.73	3.73		162	10/09/2020 19:31:6.6	10/09/2020 21:05 : 9.2
10/11/2020	11:19	0.32	3.02		9	10/11/2020 11:18: 5.2	10/11/2020 11:28 : 5.8
10/11/2020	11:29	1.00	0.00			10/11/2020 11:28:5.8	10/11/2020 11:55 : 9.9
10/12/2020	22:45	2.00	0.72			10/12/2020 22:45: 14.4	10/12/2020 23:21 : 11.7
10/13/2020	19:30	0.73	0.00			10/13/2020 19:30 : 6.4	10/13/2020 20:06 : 9.1
10/17/2020	17:22	1.36	3.40		4	10/17/2020 17:21:3.6	10/17/2020 18:01 : 5.8
10/17/2020	18:02	2.00	0.00			10/17/2020 18:01:5.8	10/17/2020 19:16 : 8.2
10/18/2020	16:17	0.10	0.02			10/18/2020 16:17: 9.2	10/18/2020 17:36 : 9.4
10/18/2020	22:22	0.80	0.46			10/18/2020 22:22: 10.3	10/19/2020 08:54 : 6.7
10/19/2020	08:55	0.60	0.36			10/19/2020 08:54 : 6.7	

It is useful to review before thinking about changing Correction Factor and I:C ratios.

Review Insulin/Pump Settings

This can also be viewed as a PDF BEFORE and AFTER your assessment.





₽ Print to PDF ▼

Confirm with patient their most used Personal Profile (name).

Note: Insulin Duration is in minutes, not hours.

You can look for a comparison of the pump settings from the last 8 downloads. The changes will appear highlighted in yellow.

240 min

Reminder:

- The patient can use tab to link Dexcom G5 Mobile or Dexcom G6.
- Customise PDF wizard in order to print desired diasend report in 1 click.
- The last two weeks of data are shown as default. It can be customised colour or black and white.

Insulin action



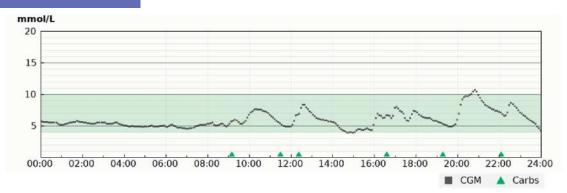
Assess the Basal-IQ technology suspensions by looking at the red bars:

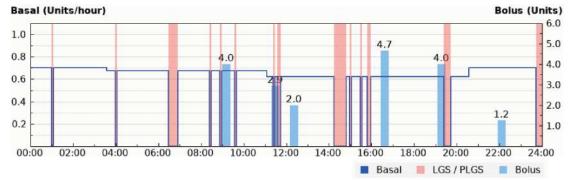


Basal-IQ technology **Related Content**

- ✓ Look for patterns are the suspensions happening at the same time of the day frequently?
- ✓ Look at the length of time of the suspensions.
- ✓ Short suspensions are 5-30 minutes.
- ✓ Long suspensions are more than 30-45 minutes.
- ✓ Treatment of hypoglycaemia with Basal-IQ technology: Consider treating hypoglycaemia with less carbohydrate when Basal-IQ technology is active in order to help prevent rebound hyperglycaemia. The suggestion is to use 5-10 grams of carbohydrate and evaluate. If the patient has already experienced a suspension of basal insulin delivery, the full carbohydrate treatment may not be necessary.3

Scenario#1: Short suspensions with no hypoglycaemia

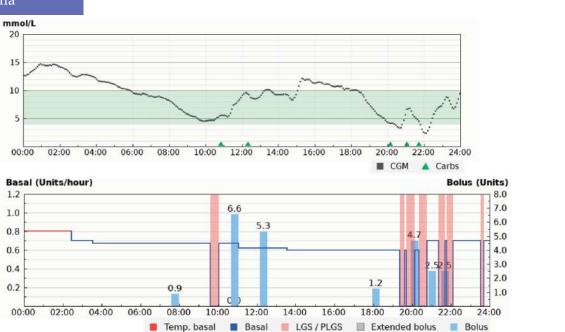




There are short suspensions occurring throughout the day but Basal-IQ technology is working as intended to keep the glucose values within target range.

Frequent suspensions do not necessarily indicate hypoglycaemia or indicate a need for a change in therapy. What is relevant here is the pattern and/or duration of the suspensions as they relate to the blood glucose outcomes.

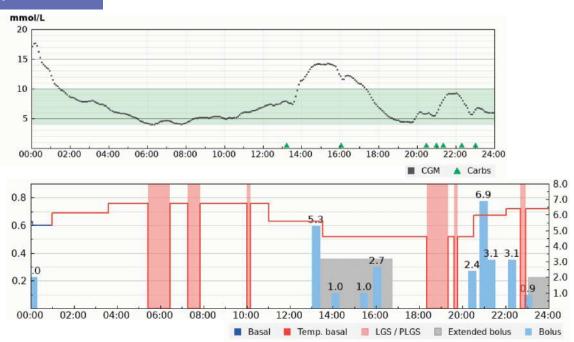




Basal-IQ technology can help to quickly identify hypoglycaemia events. Discuss periods of hypoglycaemia and review insulin to carb ratio(s), bolus timing, consider correction factor & target BG or if exercise contributed to events.

Only after considering these factors, adjustments to settings may help. In this example, the hypoglycaemia periods were occurring mainly after meal (bolus).





In this example, the long suspensions did prevent hypoglycaemia with no hyperglycaemia rebound effect.

Remember to always look for patterns before doing insulin adjustment and pump education.







amsIdiabetes.com.au

For more information on diasend by Glooko, please contact us on **1300 851 056** or at **diabetes@amsl.com.au**

amsIdiabetes.com.au











References: 1. Battelino T, Danne T, Bergenstal RM, et al. Clinical targets for continuous glucose monitoring data interpretation: Recommendations from the international consensus on time in range. Diabetes Care. 2019;42(8):1593-1603. 2. Muller, L, Habif S, Leas S, Aronoff-Spencer E. Reducing hypoglycaemia in the real world: A retrospective analysis of predictive low-glucose suspend technology in an ambulatory insulin-dependent cohort. Diabetes Technol Ther.2019;21(8):462-469. Important Safety Information: The t:slim X2 insulin pump with Basal-IQ technology (the System) consists of the t:slim X2 insulin pump, which contains Basal-IQ technology, and a compatible continuous glucose monitoring system (sold separately). The t:slim X2 insulin pump is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The t:slim X2 insulin pump can be used solely for continuous insulin delivery and as part of the System. When used with a compatible CGM, the t:slim X2 insulin pump with Basal-IQ technology can be used to suspend insulin delivery based on CGM sensor readings. The pump and the System are indicated for use in individuals six years of age and greater. The pump with the System are intended for single patient use. The pump and the System must: be willing and able to use the insulin pump, CGM, and all other system components in accordance with their respective instructions for use; test blood glucose levels as recommended by their healthcare provider; demonstrate adequate carb-counting skills; maintain sufficient diabetes self-care skills; see healthcare provider; demonstrate adequate carb-counting skills; maintain sufficient diabetes self-care skills; see healthcare provider; demonstrate adequate carb-counting skills; maintain sufficient diabetes self-care skills; see healthcare provider; demonstrate adequate carb-counting skills; maintain sufficient diabetes self-care skills; see healthcare provider; demonstrate adequate vision a