

Analyzing Control-IQ Technology Data

The Tandem Source platform makes it easy to view and analyze Control-IQ technology data. Conveniently view three different reports so you can work with your patients to spot trends and make meaningful adjustments.



Overview Report

The Overview Report offers a summary of the patient's pump and therapy data, giving a high-level look at your patient's glycemic control.

- A** Summary of CGM usage includes:
 - 01 Standard Deviation – reflects how much CGM glucose readings rise and fall, also known as glycemic variability
 - 02 Coefficient of variation – assesses the magnitude of glucose variability. The larger the %CV, the larger the variability in CGM readings.
 - 03 GMI (Glucose Management Indicator) – approximates the laboratory A1c level expected based on average glucose measured using CGM
- B** Time in range comparison of the current two weeks to the previous two weeks
- C** The Glucose trends graph shows a summary of glucose values during the selected period, combined as one day
- D** Insulin summary shows insulin usage and includes average daily carbs
- E** Bolus review breaks down boluses by type

Daily Timeline Report

The Daily Timeline Report shows glucose readings, basal and bolus insulin delivered, insulin suspension events, and other pump and therapy-related events that occurred during the selected date range.

On your computer, hover your cursor over select events to display a tooltip with information about that event.

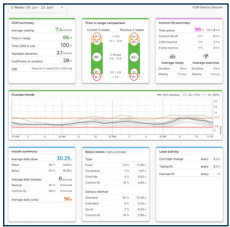
- A** Programmed Basal Rate
- B** Automatic Correction Bolus
- C** Food Bolus with number of carbs entered
- D** Cartridge Change or Infusion Site Change
- E** Food + Correction Bolus with number of carbs entered
- F** Sleep Activity
- G** Automatic basal insulin suspension
- H** Multiple Correction Boluses




General Approach to Analyzing Control-IQ Technology

This section serves as a brief introduction to reviewing reports and highlights some items to look for within each reporting segment. For more information on how to analyze reports to make impactful settings adjustments, refer to "How to Make Control-IQ technology Adjustments Using Tandem Source."

1 Overview: Big Picture

	Control-IQ Technology	<p>If Time in Use is <90%, assess reason for pump or CGM inactivity</p> <ul style="list-style-type: none"> • Assess use of Sleep Activity and Exercise Activity
	CGM Summary	<p>Goal is <4% for Time Below Range (<3.9 mmol/L)¹</p> <p>Goal is >70% for Time in Range (3.9-10.0 mmol/L)¹</p> <p>Goal is <25% for Time Above Range (>10.0 mmol/L) with <5% Time above 13.9 mmol/L¹</p>
	Insulin Summary and Bolus Review	<p>Assess ratio of basal to bolus delivery. Basal percentage typically between 40-60%</p> <p>Assess types of boluses</p> <ul style="list-style-type: none"> • Use caution when overriding boluses. Extra insulin may already be on board from increased basal rates and automatic correction boluses.
	Glucose Trends	<p>Combines all data in the reporting period into a 24-hour graph</p> <ul style="list-style-type: none"> • Ideally, the lines would stay within the target range (3.9-10.0 mmol/L)

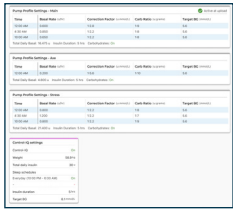
2 Daily Timeline: Glycemic Trends

	CGM Tracing	<p>Assess CGM tracing and identify if there are patterns (e.g., overnight, hypoglycemia, pre-prandial, and post-prandial)</p>
	Bolus Delivery	<p>Assess cause and effect relationships of bolus deliveries and Control-IQ technology events (i.e., Sleep Activity and Exercise Activity)</p> <ul style="list-style-type: none"> • Consider discussing types of meals/timing of bolus, carb counting knowledge, and carb ratios
	Basal Rates	<p>Assess differences between profile and Control-IQ technology basal rates</p> <p>Identify patterns associated with hypoglycemia or hyperglycemia</p>

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3 Pump Settings



Personal Profile Settings

Review pump settings. If necessary, the following Personal Profile settings can be modified:

- Basal rate
- Correction factor
- Carb ratio

Note: Target blood glucose (6.1 mmol/L) and active insulin duration (5 hours) cannot be modified when using Control-IQ technology.

Up to six Personal Profiles can be created to personalize anticipated changes in insulin requirements

Consider programming a separate Personal Profile (e.g., weekday, weekend, exercise, hormones)

Responsible Use of Control-IQ Technology

Even with advanced systems such as the t:slim X2 insulin pump with Control-IQ technology, users are still responsible for actively managing their diabetes. Control-IQ technology does not prevent all high and low blood glucose events. The system is designed to help reduce glucose variability, but it requires that users accurately input information, such as meals and periods of sleep or exercise. Control-IQ technology will not function as intended unless all system components, including CGM, infusion sets and pump cartridges, are used as instructed. Importantly, the system cannot adjust insulin dosing if the pump is not receiving CGM readings. Because there are situations and emergencies that the system may not be capable of identifying or addressing, users should always pay attention to their symptoms and treat accordingly.

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.

This product may not be right for you. Always read and follow the label.

Important Safety Information: The t:slim X2 insulin pump with Control-IQ technology (the System) consists of the t:slim X2 insulin pump, which contains Control-IQ technology, and a compatible continuous glucose monitor (CGM, 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 System can be used to automatically increase, decrease, and suspend delivery of basal insulin based on CGM sensor readings and predicted glucose values. The System can also deliver correction boluses when the glucose value is predicted to exceed a predefined threshold. The pump and the System are indicated for use in individuals six years of age and greater. The pump and the System are intended for single user use. The pump and the System are indicated for use with NovoRapid, Admelog, or Humalog U-100 insulin. The System is intended for the management of Type 1 diabetes.

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in users who require less than 10 units of insulin per day or who weigh less than 25 kilograms.

The System is not indicated for use in pregnant women, people on dialysis, or critically ill users. Do not use the System if using hydroxyurea.

Users of 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(s) regularly; and have adequate vision and/or hearing to recognize all functions of the pump, including alerts, alarms, and reminders. The t:slim X2 pump and the CGM transmitter and sensor must be removed before MRI, CT, or diathermy treatment. Visit tandemdiabetes.com/safetyinfo for additional important safety information.

The Tandem Source platform is intended for use by individuals with diabetes mellitus who use Tandem Diabetes Care insulin pumps, their caregivers, and their healthcare providers in home and clinical settings. The Tandem Source platform supports diabetes management through the display and analysis of information uploaded from Tandem insulin pumps.

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