

		() EE	
Patient List	< Patient List		
1 Upload Pump	Tom Tandem Last Upload: 23 Jun, 5:31 PM t:slim X2 (Control-IQ) Overview Daily Timsline Pump Settings	Ð	
	2 Weeks (10 Jun - 23 Jun) 🔹	CGM Date by Dexcom	
	CGM summary Time in range comparison	Control-IQ summary	
	Average reading 7.4 mmol/L Current 2 weeks Previous 2 weeks	Time active 98 % 13 d 4hrs	
	Time in range 86 % 0% > 13.9 0% 13% 10.1 - 13.9 14% 14%	Control-IQ off 0 % 0 hrs CGM inactive 1 % 2 hrs	
	Time CGM in use 100 % Standard deviation 2.1 mmol/L	Pump inactive 1% 4 hrs	
	Coefficient of variation 28 %	Average sleep Average exercise	
	OMI Requires 2 weeks/70% CGM use 0x 3.0 - 3.8 10 0x 3.0 - 3.8 10	Duration 9 hrs Duration 0 hrs Weekly 7 times Weekly 0 times	
	Glucose trends		
		22 18 14 10,0	
	12 AM 2 4 6 AM 8 10 12 PM 2 4	3.9 - 2 2 2 2 4 2 6 PM 8 10 11:59	
	Insulin summary Bolus review (daily average)	Load activity	Image: 100% 07:30 Image: 100% 235 ♦ *22 7.9
	Average daily dose 30.29 u Type	Cartridge change every 3.2 d	<18 mmol/L <14 🖉
	Basal 46 % 14.03 u Food 73 % 11.90 u	Tubics (1) 204	6 HRS

Instructions for Use



TANDEM Diabetes Care

View User's Pump Data

Visit **source.tandemdiabetes.com** and upload pump data or view reports.



Save and Print Reports

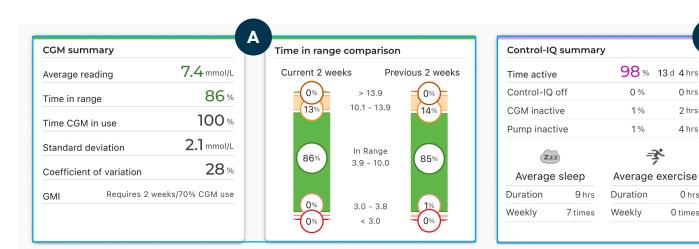
Select Overview, Daily Timeline, and Pump Settings at last upload, and select a two week date range.

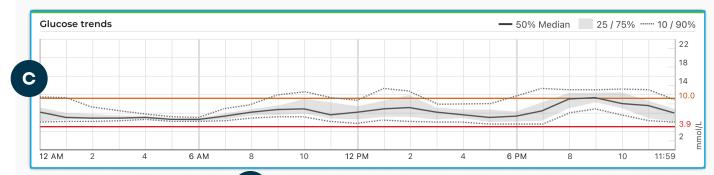
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✓	

PROFESSIONAL

Follow the Worksheet

Get step-by-step guidance on clinical assessment, user education, and insulin dose adjustments.





Insulin summary			Bolus revi
Average daily dose		30.29 u	Туре
Basal	46 %	14.03 u	Food
Bolus	54 %	16.26 u	Correction
Average daily boluses		8 boluses	Override
Manual	61%	5 boluses	Control-IQ
Control-IQ	39 %	3 boluses	Delivery M
Average daily carbs		96 9	Standard
			Extended
			Quick
			Control-IQ

Bolus review (daily	average)		Loa
Туре			Cart
Food	73 %	11.90 u	Tubi
Correction	7 %	1.07 u	0
Override	4 %	0.63 u	Can
Control-IQ	16 %	2.66 u	
Delivery Method			
Standard	82 %	13.26 u	
Extended	0 %	0.00 u	
Quick	2 %	0.34 u	
Control-IQ	16 %	2.66 u	

Cartridge change	every	3.2 c
Tubing fill	every	3.2 0
Cannula fill	every	- C

Patterns		
	В	
e glycemic targets being met? ¹	Is Control-IQ technology being used?	

Level 2 hypoglycemia: Time Below Range (TBR) < 3.0 mmol/L, goal is <1%

Are

В

98% 13d 4 hrs

-**?**-

0 hrs

2 hrs

4 hrs

0 hrs

0 times

0 %

1%

1%

Level 1 hypoglycemia: TBR 3.0-3.8 mmol/L, goal is <4%

Time in range (TIR): 3.9-10.0 mmol/L, goal is >70%

Level 1 hyperglycemia: Time Above Range (TAR) 10.1-13.9 mmol/L, goal is <25%

Level 2 hyperglycemia: TAR >13.9 mmol/L, goal is <5%

Time Control-IQ in use (Percent of time that Control-IQ technology is in use): Aim for >90%. If less, assess why.

CGM inactive (Time sensor not active): Aim for <10%. If more, assess why.

Daily sleep: Recommended to program Sleep Schedule.

Weekly exercise events: Assess use of Exercise Activity and outcomes.

Are there patterns of hypoglycemia and/ or hyperglycemia?

(D)

Assess insulin delivery

Use Glucose trends to understand average glucose data throughout the day. Focus on the areas where the average glucose is out of target range.

The median line should ideally be mostly flat and within the target range of 3.9-10.0 mmol/L.

25/75% shows 50% of the glucose values; ideally, shaded area is narrow.

10/90% shows where 10% of values are below and 10% are above; ideally the closer the dotted lines are to the darker shaded area, the better.

Ratio of basal to bolus delivery: Basal percentage typically between 40-60%²

If not, assess why (activity level, bolus behaviors, types of meals, increased interaction with system).

Consider verifying user's settings: See back of handout for instructions on how to calculate.

Types of boluses:

Assess types of meals/ timing of bolus, carb counting knowledge, and carb ratios.





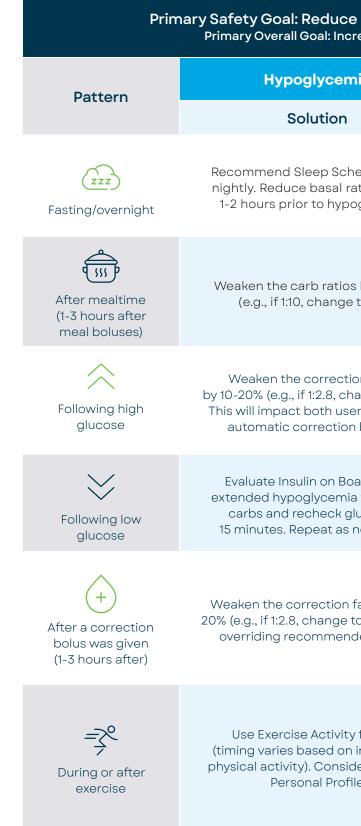
Identify the predominant causes of a hypoglycemia or hyperglycemia pattern

Is a hypoglycemia pattern occurring?

- Fasting/overnight?
- ✓ After meal bolus? (1-3 hours after)
- Following hyperglycemia events?
- ✓ During or after exercise?

- Is a hyperglycemia pattern occurring?
- Fasting/overnight?
- ✓ After meal bolus? (1-3 hours after)
- Following hypoglycemia events?





Primary Safety Goal: Reduce Hypoglycemia (<3.9 mmol/L) to <4% Primary Overall Goal: Increase TIR (3.9-10.0 mmol/L) to >70%

nia	Hyperglycemia		
	Solution		
edule is set ates 10-20% oglycemia.	Recommend Sleep Schedule is set nightly. Increase basal rates 10-20% 1-2 hours prior to hyperglycemia.		
s by 10-20% to 1:12).	Strengthen carb ratios by 10-20% (e.g., if 1:10, change to 1:8). Consider timing of bolus.		
on factor ange to 1:3.0). er-given and boluses.	Strengthen the correction factor by 10-20% (e.g., if 1:2.8, change to 1:2.5). If unexplained hyperglycemia persists, refer to "Infusion Site Tips" on next page.		
ard. Treat a with 15g of lucose in necessary.	Treat mild hypoglycemia with fewer grams of carbs (5-10g), especially after periods of reduced/suspended insulin delivery.		
factor by 10- :o 1:3.0). Avoid ded doses.	Strengthen correction factor by 10-20% (e.g., if 1:2.8, change to 1:2.5).		
r feature intensity of der alternate le.	Educate on proper type, amount, and timing of additional carb intake prior to exercise.		

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O4 Education

Adjust insulin pump settings

Consider calculating pump settings based on Total Daily Insulin (TDI) if user not reaching desired TIR or has multiple timed settings within their profile (potentially from users transitioning from prior pump therapy). Can use "Calculating Pump Settings" table on the next page for settings recommendations.



Adjustable parameters

Basal rates, carb ratios, and correction factors can be modified to patient needs. Target range values are preset to 6.25-8.9 mmol/L if Control-IQ technology is enabled, or modified to 6.25-6.7 mmol/L during Sleep Activity and 7.8-8.9 mmol/L during Exercise Activity. Correction factor directly impacts how Control-IQ technology automates insulin delivery, including bolus delivery. Studies show a more aggressive correction factor is associated with higher time in range with negligible impact to hypoglycemia.³

Personal Profiles

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



Personal F	Profiles	
Pump Settings		
Weekday	ON	ПТ
Weekend	OFF	
Exercise	OFF 🕂	

4 Education

	Infusion
When in doubt, change it out	Other time infus
 If unexplained hyperglycemic persists (i.e., >13.9 mmol/L for >90 minutes) 	
 Orrect by injection Change infusion set, site, and cartridge 	 If not chang 2-3 days If insulin or in
os Check for ketones	 Rotate site c tissue/lipohy
	 If experience infusion site different can infusion set

		Calculating
Basal Rate	Total Daily Basal Units	Pump TDI x %Basal (40-60%) = Total Daily Basal ^{2,4,5}
	Initial Basal Rate	Total Daily Basal ÷ 24 hours = Initial Basal Rate ^{2,4,5}
Correction Factor	_	90 [†] ÷ Pump TDI = Correction Factor ^{2,4}
Carb Ratio	_	450 ÷ Pump TDI = Carb Ratio⁵

on Site Tips

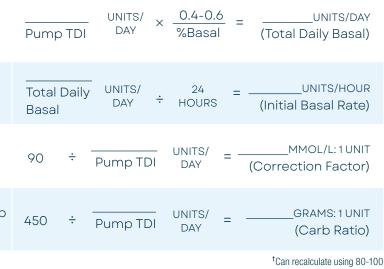
mes to change fusion set

- s (possible leaking) ss/swelling (possible at site
- nged within
- or infusion set is
- e often to avoid scar ohypertrophy
- ncing repeated ite problems, try cannula length or et

Disconnecting

- If disconnecting from the pump, suspend insulin so Control-IQ technology calculates insulin on board accurately and continue to monitor glucose
- If disconnecting for 1-4 hours, reconnect and deliver bolus if hyperglycemia occurs. Reduce amount for activity if neccessary.
- Always disconnect from site on body, not the tubing connector

ng Pump Settings



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.

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* If glucose values are predicted to be above 10.0 mmol/L, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 6.1 mmol/L and delivers 60% of that value.

References: 1. Diabetes Technology: Standards of Care in Diabetes - 2024. *Diabetes Care*. 2024;47(Suppl. 1):S126-S144. doi: 10.2337/dc24-S007. 2. Walsh J, Roberts R. *Pumping Insulin: Everything for Success on an Insulin Pump and CGM*. 6th ed. San Diego, CA: Torrey Pines Press; 2016. 3. Messer LH, Breton M. Therapy Settings Associated with Optimal Outcomes for t:slim X2 with Control-IQ Technology in Real World Clinical Care. *Diabetes Technol Ther*. 2023;25(12):877-882. doi: 10.1089/dia.2023.0308 4. Grunberger G, Abelseth JM, Bailey TS, et al. Consensus Statement by the American Association of Clinical Endocrinology insulin Pump Management Task Force. *Endocr Pract*. 2014;20(5):463-489. doi: 10.4158/EP14145.PS 5. Hinnen D, DeGroot J. Therapy Intensification: Technology and Pain Management. In: *The Art and Science of Diabetes Care and Education*.5th ed. Chicago: Association of Diabetes Care and Education Specialists; 2021:592-593.

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 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 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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