t:slim X2 Insulin Pump with Control-IQ+ Technology

TALK DIABETES WITH STEVE

TANDEM Simulator

Automated Mode: **Control-IQ+**

- Algorithm responds to actual CGM readings and predicts CGM values 30 minutes in the future and increases, decreases or pauses insulin delivery based on predicted CGM value, active Personal Profile, and if CIQ+ technology Activity is enabled
  - Control-IQ+ Target Range: 112.5 – 160 mg/dL
- **Personal Profile Settings**: Basal Rate, Correction Factor, Carb Ratio, Target BG
- **Automatic Correction Bolus**: delivered when CIQ+ predicts CGM value ≥180 mg/dL 30 minutes in the future, increasing insulin delivery or delivering Maximum Insulin Delivery
  - Target sensor glucose for automatic corrections is 110 mg/dL and occurs at most once every 60 minutes
  - **Will not be delivered within 60 minutes of the start, cancellation, or completion of an automatic or manual bolus**
  - **Maximum amount of insulin that an automatic correction bolus will deliver is 6 units. This value cannot be increased.**

Manual Mode: System delivers insulin based on user-defined Personal Profile Settings

- No automated adjustments of insulin delivery
- Up to 6 different profiles with up to 16 different time segments within each profile

Temporary Basal: Automated or Manual Mode setting used to increase or decrease the current basal rate for a short period to accommodate special situations

- Duration: 15 minutes to 72 hours in increments of 1 minute. Reverts to scheduled basal profile when temp basal ends.
- Range: 0% to 250% in increments of 1% (no flat rate setting)
- Temporary Rate cannot exceed Max Basal Rate

Extended Bolus: A bolus delivered over a period of time, commonly used to cover food that takes longer to digest

- Can be used in Automated and Manual Modes
- Duration: 15 minutes to 8 hours

Quick Bolus: Allows user to deliver a bolus by pressing a button without navigating or viewing the pump screen

- Can be programmed to deliver a bolus in units of insulin (0.5, 1, 2, or 5 units) or grams of carbs (2, 5, 10, 15 grams)
  - Algorithm uses Quick Bolus as a correction bolus if configured as units of insulin or food bolus if configured as grams of carbs

Exercise Activity: CGM range targeted by CIQ+ changes to 140 – 160 mg/dL. Recommended to start 1-2 hours prior to start of activity.

- Insulin is decreased when CIQ+ predicts CGM reading <140 mg/dL 30 minutes in the future
- Insulin is suspended (set to 0 units/hour) when CIQ+ predicts CGM reading <80 mg/dL 30 minutes in the future
- Insulin is increased when CIQ+ predicts CGM reading >160 mg/dL 30 minutes in the future
  - Automatic Correction Boluses are still delivered if CGM value ≥180 mg/dL when Exercise Activity is enabled

Sleep Activity: CGM range targeted by CIQ+ changes to 112.5 – 120 mg/dL

- Sleep Activity can be scheduled to turn on and off automatically or turned on manually
- Insulin is decreased when CIQ+ predicts CGM reading ≤112.5 mg/dL 30 minutes in the future
- Insulin is suspended when CIQ+ predicts CGM reading ≤70 mg/dL 30 minutes in the future
- Insulin is increased when CIQ+ predicts CGM reading ≥120 mg/dL 30 minutes in the future
  - Automatic Correction Boluses will not be delivered when Sleep Activity is enabled
- Exercise and Sleep Activities cannot be enabled at the same time

Bolus Calculation: When your glucose value is:

- **Above Target BG**: insulin for the food and correction bolus will be added together. If IOB is present, it will be subtracted from correction bolus
- **Between 70 mg/dL and Target BG**: you will be given the option to reduce the food bolus to account for the lower BG. IOB will be used to reduce bolus
- **Below 70 mg/dL**: Food bolus will be reduced for the low glucose value. IOB will also be used to reduce bolus

Approved for people with T1D age 2+ and people with T2D age 18+ weighing at least 20 lbs./9 kg and using at least 5 units of insulin per day.