



Tandem X2 Insulin Pump: Information for School Nurses



Basal-IQ

1 pump, 2 software options

Control-IQ



- ❖ Conventional pump therapy
 - Basal delivery rates pre-programmed
 - User gives boluses for meals and high blood sugar correction
- ❖ Addition of Predictive Low Glucose Suspend technology (“PLGS”)
 - Automatically suspends basal insulin delivery when sensor glucose is predicted to be < 80 mg/dL in next 30 minutes
 - Automatically resumes insulin delivery when glucose starts to rise

TIP: If pump is suspended at meal-time, but glucose is not low, manually resume insulin delivery to give bolus for carbs

- ❖ Hybrid Closed Loop (HCL) therapy
 - Basal delivery auto- calculated by pump
 - Auto-correction boluses calculated by pump
 - User gives boluses for meals and *may* give high blood sugar correction boluses
- ❖ Automatically increases or decreases programmed basal rate if glucose predicted to be > 160 mg/dL or < 112.5 mg/dL, respectively
- ❖ Automatically suspends insulin delivery if glucose predicted to be < 70 mg/dL
- ❖ Delivers auto-correction bolus if glucose predicted to be > 180 mg/dL (max. 1/hr.)

TIP: If sensor glucose is < 110 mg/dL, pump will prompt user to consider reducing bolus calculation. Press NO to get full insulin dose for carbohydrates

THE BIG PICTURE

Important to give meal-time boluses before meal for both systems

- Entering carbs for meals into bolus calculator required for Basal IQ AND Control IQ

High BG correction boluses beneficial for both systems

- Basal IQ does NOT increase insulin delivery in response to high blood glucose
- Auto-boluses in Control IQ are only 60% of the full correction dose
- CGM value will auto-populate into bolus calculator, making correction boluses easy to give as needed

Dexcom G6 used for both systems

- Dexcom G6 CGM can be used directly for treatment decisions, without the need for a fingerstick check with a BG meter

Management of hyperglycemia and hypoglycemia will remain the same, per the Standards of Care for Diabetes Management in School

- If ketones are present, a syringe injection should be given and Control IQ should be turned off