



Hypoglycemia

Low glucose (hypoglycemia) occurs when there is too much insulin and not enough glucose in your blood. Some of the more common causes of hypoglycemia are increased or unexpected activity and overestimation of carbohydrate leading to a larger bolus than needed.

Hyperglycemia

High glucose (hyperglycemia) occurs when there is too much glucose and not enough insulin in your blood. Stress, illness, medication, inactivity, and underestimation of carbohydrate leading to an inadequate bolus are all common causes of high glucose.

Diabetic Ketoacidosis

Diabetic ketoacidosis occurs when there is not enough

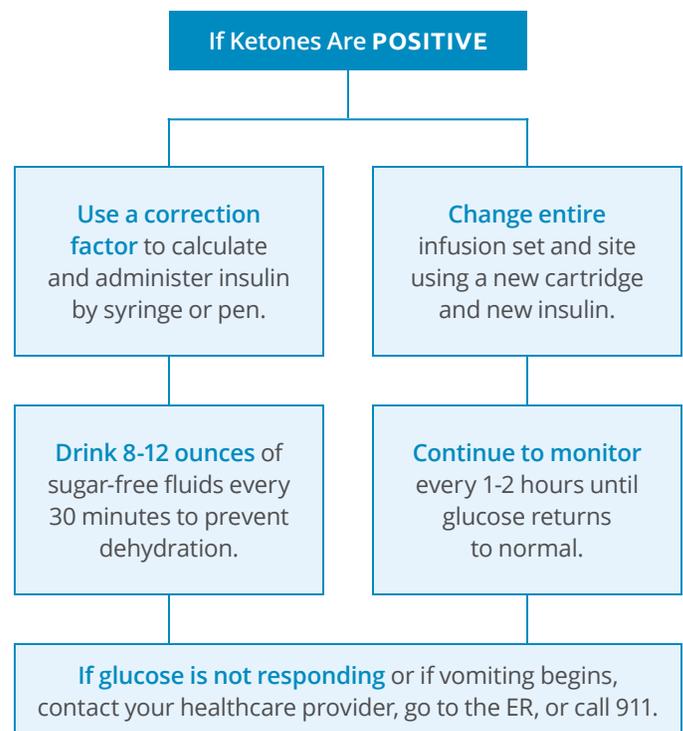
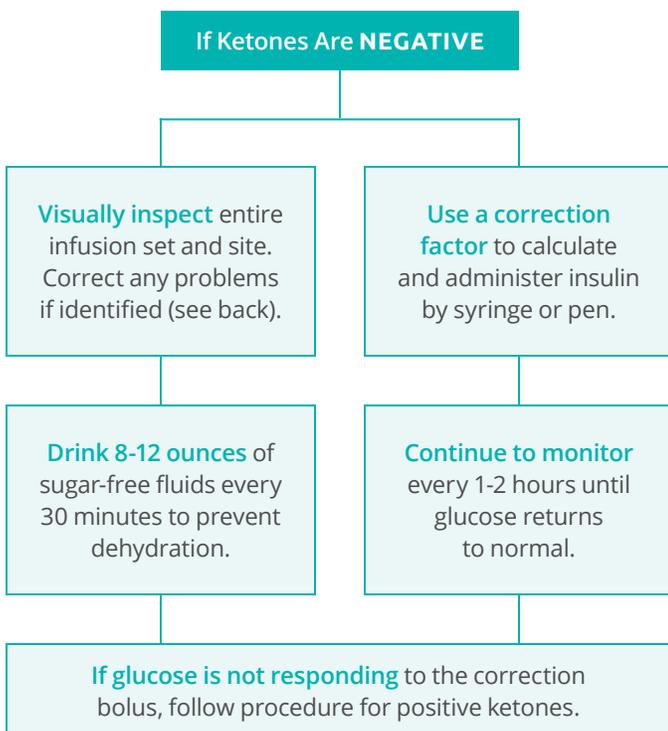
insulin available to help glucose enter the cells to be used for energy. Without glucose, fat is used for energy resulting in a waste product called ketones. If too many ketones accumulate, (which can happen rapidly), the condition becomes very serious and medical attention is required.

Symptoms of Diabetic Ketoacidosis	
Early Symptoms	Severe Symptoms
Thirst or dry mouth	Nausea and vomiting
Frequent urination	Abdominal pain
High blood glucose	Weakness or fatigue
Ketones in urine	Labored breathing

Treatment Guidelines

If your glucose is above 250 mg/dL two times in a row and/or is not responding to a correction bolus, test for ketones, change entire infusion set and site, correct by injection, and follow guidelines below.

When correcting for high glucose by syringe or pen, you can still track insulin on board (IOB) from your t:slim X2™ insulin pump. Just follow the instructions included in the Pump Tip on the back of this flyer to access this feature.



Troubleshooting

The chart below outlines possible causes that will need to be investigated when your glucose is not responding to treatment. If the problem continues or you do not find a solution, contact your healthcare provider (HCP).



PUMP TIP: To track IOB when dosing by injection, disconnect infusion set at site, deliver a bolus equal to the injection dose, and then reconnect.

Possible Issues	What to Check	If Yes . . .	
Infusion Set and Site	Infusion set leaking at site	Wetness at site	Change infusion set at site and rotate site
	Set not changed within 2-3 days	Load history or site reminder	Change infusion set at site and rotate site
	Infection at site	Redness, swelling at site	Change infusion set at site and rotate site
	Crimped, dislodged, or clogged cannula	Infusion site	Change infusion set at site and rotate site
	Cannula placed in scar tissue	Infusion site	Change infusion set at site and rotate site
	Air bubbles in tubing	Air bubbles or spaces in tubing	Detach tubing from site, fill tubing with insulin to push air out, and reattach tubing to site
	Tubing not filled when infusion set was last changed	Load history	Detach tubing from site, complete load sequence, and reattach tubing to site
	t:lock™ infusion set connector is loose from tubing	Tubing connection	Detach tubing from site, tighten t:lock connector, fill tubing with insulin to push air out, and reattach tubing at site
Insulin Pump	Insulin expired, denatured, or exposed to extreme temperature	Insulin quality in vial or storage temperature	Discard insulin and cartridge, fill new cartridge with insulin, and change entire infusion set
	Insulin in cartridge longer than recommended	Load history	Discard insulin and cartridge, fill new cartridge with insulin, and change entire infusion set
	Programming error (eg, insulin dose settings and time/date)	Personal Profiles and time/date settings	Reprogram as necessary
	Alarm sounded	Alarm history	Identify alarm and take action as outlined in your t:slim X2 insulin pump User Guide
	Battery dead	Battery icon	Charge battery
	Insulin pump is not controlling glucose	Discuss with your HCP	Contact HCP to discuss need for evaluation and adjustments to settings
Behaviors	Bolus error (missed, delivered after meal or did not correct)	Bolus history	Bolus as needed to correct
	Life influences	Stress, medication, illness, or inactivity	Discuss action plan with your HCP



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t:slim X2 Insulin Pump

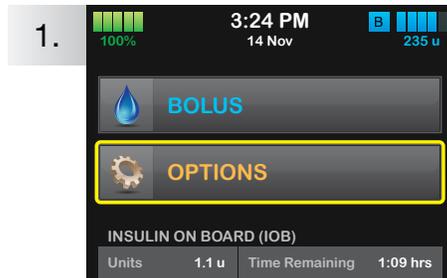
Important Safety Information: Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. The t:slim X2 insulin pump with interoperable technology is an alternate controller enabled (ACE) pump that is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The pump is able to reliably and securely communicate with compatible, digitally connected devices, including automated insulin dosing software, to receive, execute, and confirm commands from these devices. The pump is indicated for use in individuals 6 years of age and greater. The pump is intended for single patient, home use and requires a prescription. The pump is indicated for use with NovoLog or Humalog U-100 insulin. The t:slim X2 pump must be removed before MRI, CT, or diathermy treatment. Visit tandemdiabetes.com/safetyinfo for additional important safety information.

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Personal Profiles

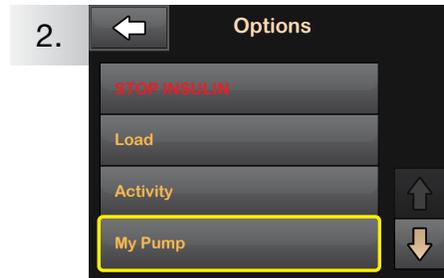
on the t:slim X2 Insulin Pump

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the Tandem t:slim X2™ insulin pump, please refer to its User Guide.



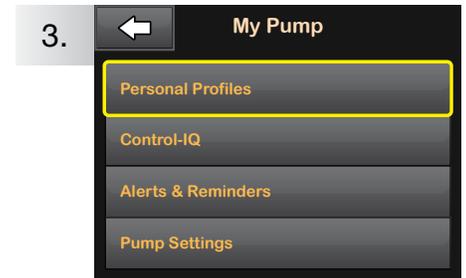
1.

Tap **OPTIONS**.



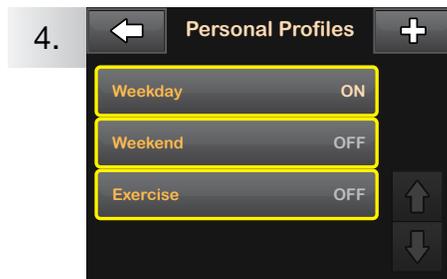
2.

Tap **My Pump**.



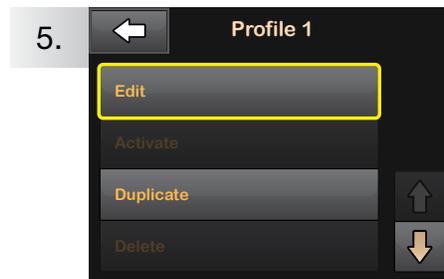
3.

Tap **Personal Profiles**.



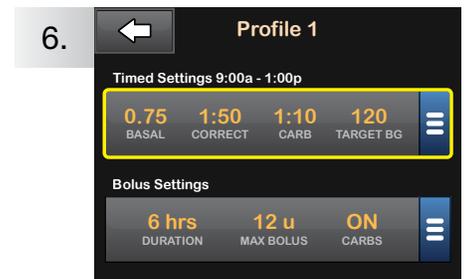
4.

Tap the name of the Personal Profile to view or edit.



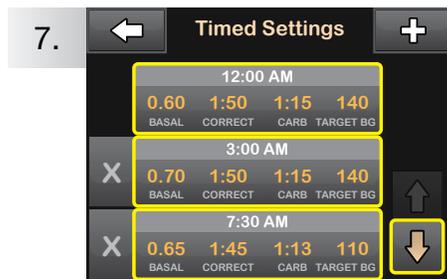
5.

Tap **Edit** to edit or view the settings.



6.

Tap your current settings to see the full list of timed settings for the entire day.



7.

Tap the time segment the user wishes to edit.
If not all segments are visible, tap the **Down Arrow**.



8.

Tap **Basal**, **Correction Factor**, **Carb Ratio**, or **Target BG** to make changes, then tap **Done**.
When finished, tap **Done**.



9.

Confirm settings. Recent changes appear in orange.
Tap **Done** to confirm.



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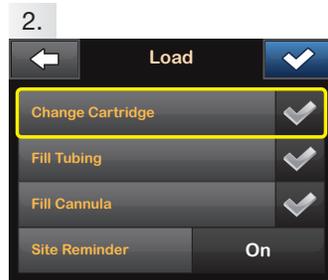
Load a Cartridge

Into the t:slim X2 Insulin Pump

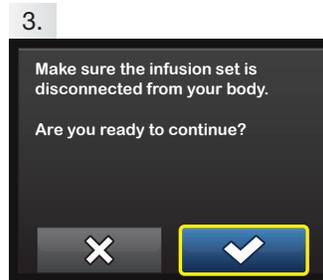
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the Tandem t:slim X2™ insulin pump, please refer to its User Guide.



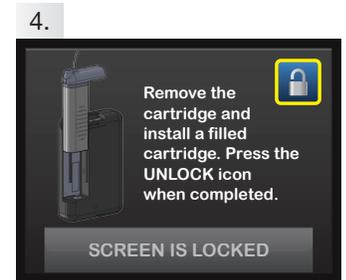
1. From the Options menu, tap Load.



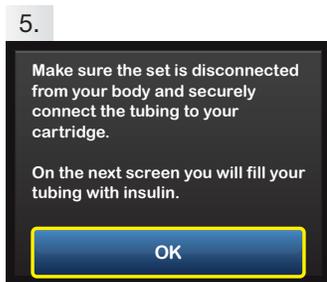
2. Tap **Change Cartridge**. A screen will appear to confirm that all insulin deliveries will be stopped. Tap to continue.



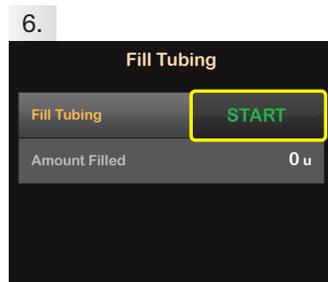
3. Disconnect the infusion set from the user's body and tap to continue.



4. Remove the used cartridge. Install filled cartridge. Tap the unlock icon when completed. Tap to continue.



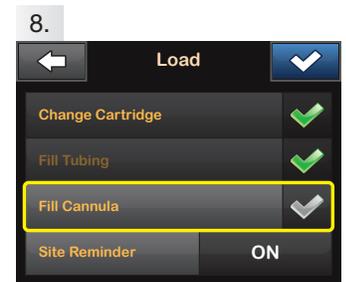
5. Verify that the infusion set is disconnected from the user's body. Connect the infusion set tubing to the tubing connector on the cartridge. Tap .



6. Hold the pump vertically to ensure any air in the cartridge will be dispelled first. Tap **START**. The pump will beep or vibrate regularly while the tubing is filled.



7. Tap **STOP** after three drops of insulin are seen at the end of the infusion set tubing. Verify that drops are seen and tap **DONE**.

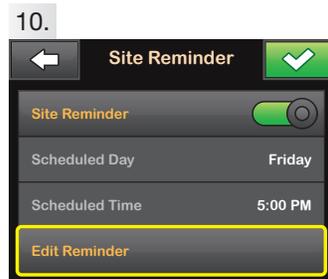


8. From the Load screen, tap **Fill Cannula**. Insert a new infusion set and connect filled tubing to site, then tap .

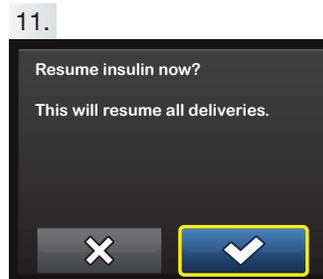
NOTE: When using a steel needle infusion set, there is no cannula. Skip to step 10.



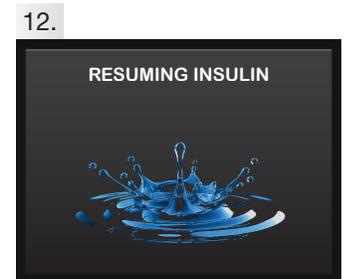
9. Tap **Edit Fill Amount**. Select amount needed for cannula fill. Refer to the infusion set Instructions for Use for proper cannula fill amount. Tap **START**.



10. After the cannula fill is complete, user may set a Site Change Reminder. Tap if correct. Tap **Edit Reminder** if settings need to be changed.



11. Load screen is displayed. Tap . A reminder to test BG in 1-2 hours will display. Tap .



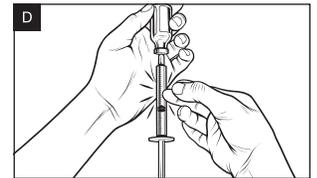
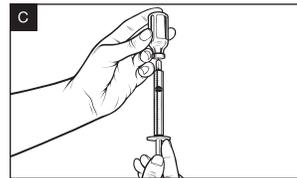
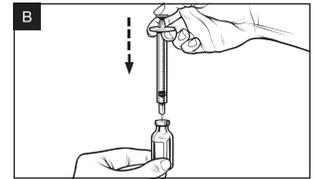
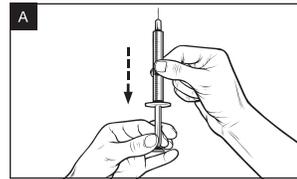
12. The **RESUMING INSULIN** screen will appear.



Instructions for Drawing Insulin From Vial Into Syringe

Use proper clean technique while performing the following:

1. Inspect the needle and syringe package for any signs of damage. Discard any damaged product.
2. Wash hands thoroughly.
3. Wipe the rubber septum of the insulin vial with an alcohol swab.
4. Remove the needle and syringe from their packaging. Securely twist needle onto syringe. Safely remove protective cap from needle by pulling outward.
5. Draw air into syringe up to the amount of insulin desired (*see image A*).
6. With insulin vial upright, insert needle into vial. Inject air from syringe into vial. Maintain pressure on syringe plunger (*see image B*).
7. With needle still inserted into vial, turn vial and syringe upside down. Release syringe plunger. Insulin will begin to flow from the vial into the syringe.
8. Slowly pull back the plunger to the desired amount of insulin (*see image C*).
9. While the filling needle is still in the vial and upside down, tap the syringe so that any air bubbles rise to the top (*see image D*). Then slowly push the plunger upwards, forcing any air bubbles back into the vial.
10. Check the syringe for air bubbles and do one of the following:
 - » If there are air bubbles present, repeat step 9.
 - » If no air bubbles are present, remove the filling needle from the vial.



Instructions for Filling the Cartridge

Depending on the pump model, an onscreen message will instruct the user either to load an empty cartridge or a filled cartridge onto the pump.



If instructed to load an **unused (empty) cartridge**, perform the following **after** loading the cartridge onto the pump.

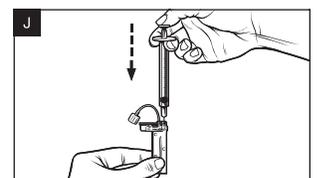
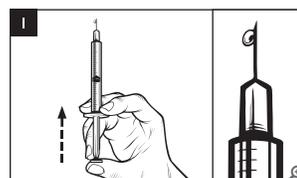
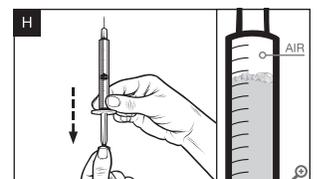
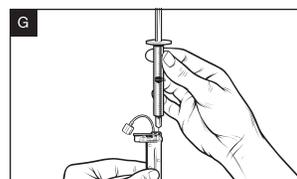
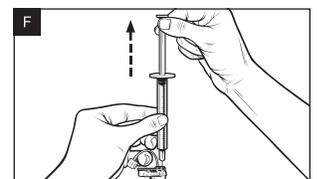
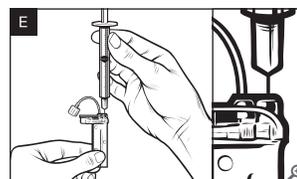
OR



If instructed to load a **filled cartridge**, perform the following **before** loading the cartridge onto the pump.

Refer to the User Guide that came with the system for detailed installation instructions.

1. Inspect the cartridge package for any signs of damage. Discard any damaged product.
2. Open the package and remove the cartridge.
3. Hold the cartridge upright and gently insert the needle into the white insulin fill port on the cartridge (*see image E*). The needle is not intended to go all the way in, so do not force it.
4. Keeping the syringe vertically aligned with the cartridge, and the needle inside the fill port, pull back on the plunger until it is fully retracted (*see image F*). This will remove any residual air from the cartridge. Bubbles will rise toward the plunger.
5. Make sure the needle is still in the fill port and release the plunger. Pressure will pull the plunger to its neutral position but it will NOT push any air back inside the cartridge (*see image G*).
6. Withdraw the needle from the fill port.
7. Turn the syringe upright and pull down on the plunger (*see image H*). Flick the barrel to make sure that any air bubbles rise to the top.
8. Gently press on the plunger to remove air bubbles until insulin fills the needle hub and you see a drop of insulin at the tip of the needle (*see image I*).
9. Re-insert the needle in the fill port and slowly fill the cartridge with insulin (*see image J*). It is normal to feel some back pressure as the plunger is depressed.
10. Maintain pressure on the plunger while the needle is removed from the cartridge. Check the cartridge for leaks. If insulin leakage is detected, discard the cartridge and repeat entire process with a new cartridge.
11. Always dispose of used needles, syringes, cartridges, and infusion sets following community regulations.



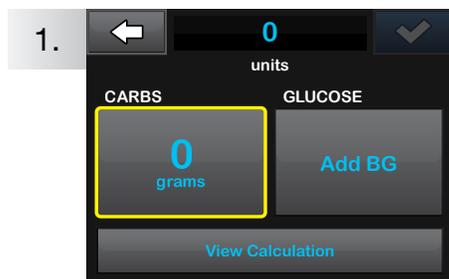
Deliver a Bolus

With the t:slim X2 Insulin Pump



UNITS OF MEASURE MG/DL

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the Tandem t:slim X2™ insulin pump, please refer to its User Guide.



1.

Tap **0 grams** to enter the carbs for the user's bolus.

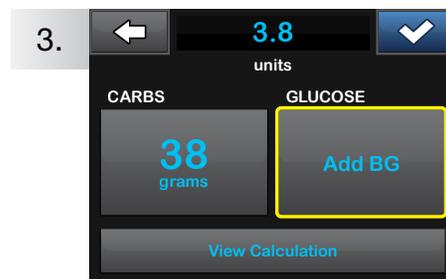
NOTE: If this area reads "units," the carb feature is turned off in the active profile.



2.

Enter desired value. Be sure "grams" is displayed above keypad for food boluses.

Tap to continue.



3.

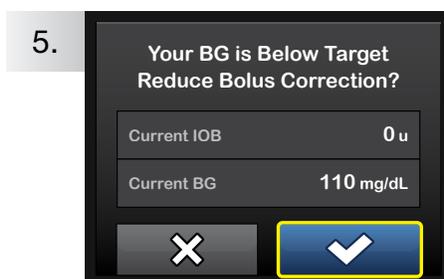
Tap **Add BG** to enter your blood glucose.

NOTE: If certain advanced features are being used, the current Dexcom G6 CGM reading may auto-populate to the bolus calculator. Please see the User Guide for more information.



4.

Enter desired value. Be sure "mg/dL" is displayed above keypad when entering blood glucose (BG) values.



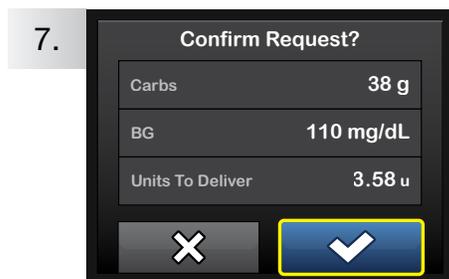
5.

If a BG is entered that is below the target, but above 70 mg/dL, the option to reduce the bolus amount will appear. To accept that reduction tap ; otherwise, tap .



6.

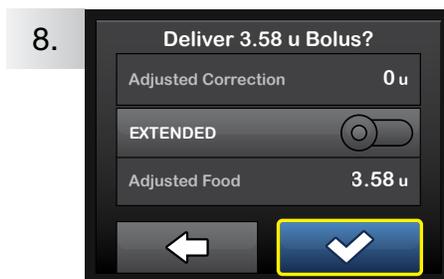
Tap to continue. Tap the calculated units value to manually adjust recommended dose.



7.

Verify the dose and tap to confirm.

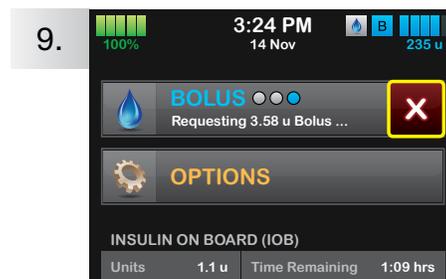
NOTE: Calculations above are based on preset insulin-to-carb ratios and correction factors, which may be set in Personal Profiles.



8.

Tap to deliver the food bolus immediately.

The BOLUS INITIATED screen will appear to confirm delivery has started.



9.

To cancel the undelivered portion of the bolus, tap next to BOLUS on the Home screen, then tap to confirm canceled bolus.



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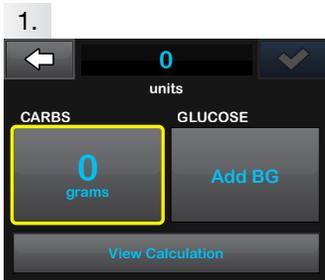
Deliver an Extended Bolus

With the t:slim X2 Insulin Pump



UNITS OF MEASURE MG/DL

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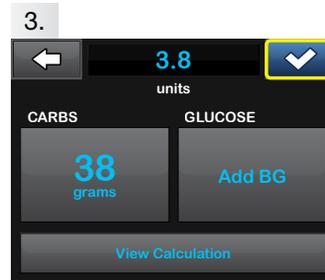
1. Tap **0 grams** to enter the carbs for the bolus.

NOTE: If this area reads “units,” the carb feature is turned off in the active profile.



2. Enter desired value. Be sure “grams” is displayed above keypad for food boluses.

Tap to continue.



3. Tap to continue, then tap to confirm.

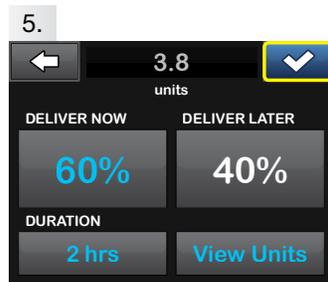
NOTE: If an above-target blood glucose (BG) is entered, the correction bolus will not be extended.

NOTE: If certain advanced features are being used, the current Dexcom G6 CGM reading may auto-populate to the bolus calculator. Please see the User Guide for more information.

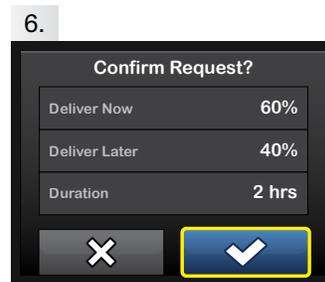


4. Tap the toggler to the ON position to extend the bolus.

Tap to continue.

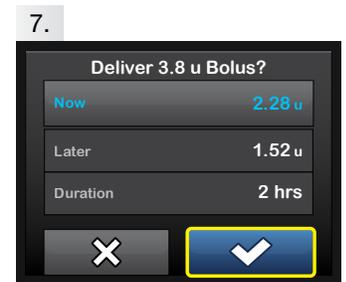


5. Tap to use default settings or tap **DELIVER NOW** and **DURATION** and set the desired values, then Tap to continue.

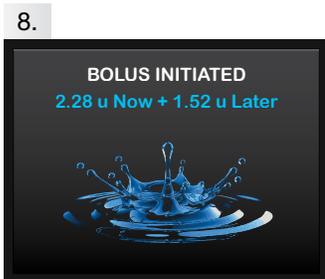


6. Tap to confirm.

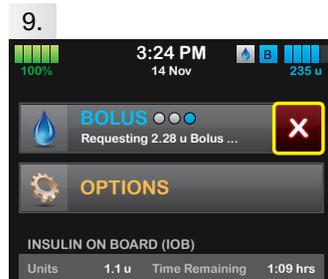
NOTE: If Control-IQ™ technology is turned on, extended boluses are limited to 2 hours. Please see the User Guide for more information.



7. The delivery screen will confirm how much insulin will be delivered up front, how much will be delivered over time, and the delivery duration. Tap to start the bolus.



8. The **BOLUS INITIATED** screen will appear to confirm delivery has started.



9. To cancel the undelivered portion of the bolus, tap **X** next to **BOLUS** on the Home screen, then tap to confirm canceled bolus.



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Stop and Resume Insulin Delivery

for the t:slim X2™ Insulin Pump



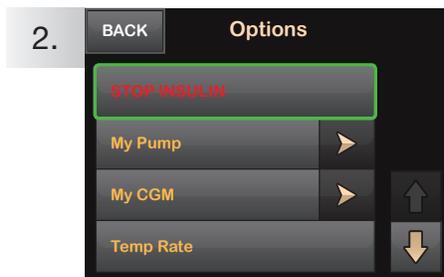
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of Tandem's insulin pumps, please visit www.tandemdiabetes.com/support.



Stop Insulin Delivery



1. Tap **OPTIONS**.



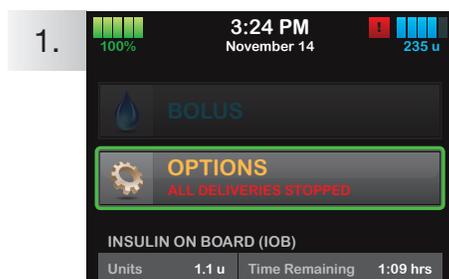
2. Tap **STOP INSULIN**.



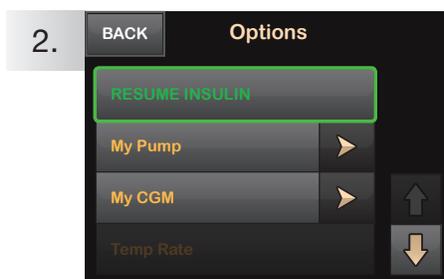
3. Tap **STOP**.



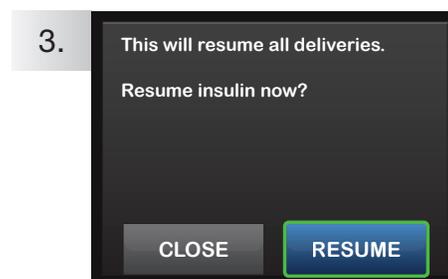
Resume Insulin Delivery



1. Tap **OPTIONS**.



2. Tap **RESUME INSULIN**.



3. Confirm by tapping **RESUME**.

NOTE: Any temp rates or boluses active before you stopped delivery will not resume. It will resume your active personal profile.



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t:simulator App
A demo as simple as our pumps!



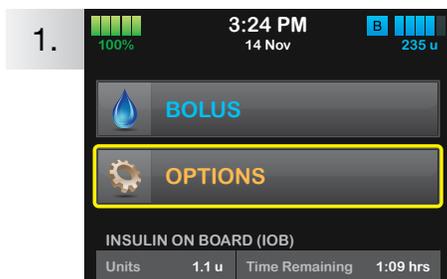
DOWNLOAD IT TODAY:
Text **DEMO** to
TANDEM (826336)



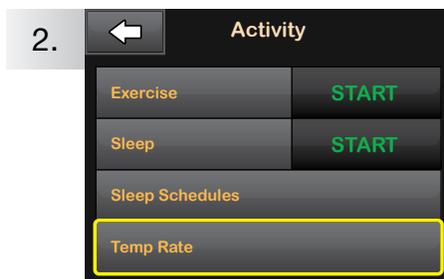
Set a Temp Basal Rate

on the t:slim X2 Insulin Pump

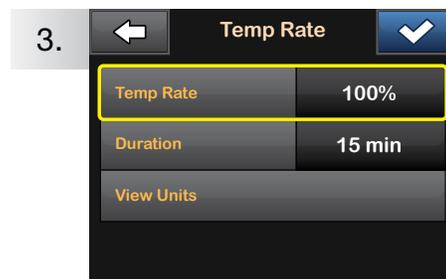
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the Tandem t:slim X2™ insulin pump, please refer to its User Guide.



1. Tap **OPTIONS**.

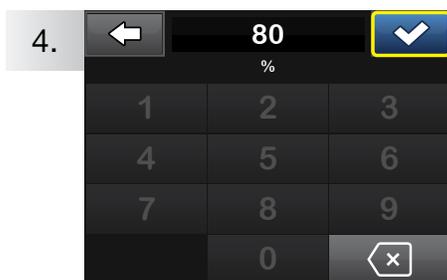


2. From the **Activity** menu, tap **Temp Rate**.



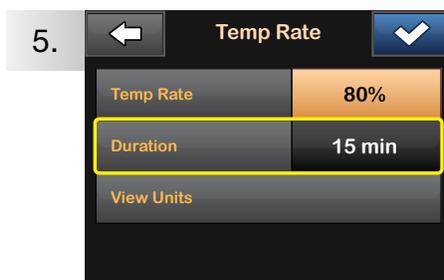
3. Tap **Temp Rate**.

NOTE: For Control-IQ™ technology users, Temp Rates are only available when Control-IQ technology is turned off.



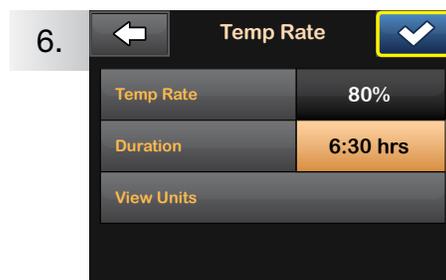
4. Using the onscreen keypad enter desired percentage. Tap **✓**.

NOTE: Current rate is 100%. An increase is greater than 100% and a decrease is less than 100%.



5. Tap **Duration**. Using the onscreen keypad enter desired length of time for Temp Rate. Tap **✓**.

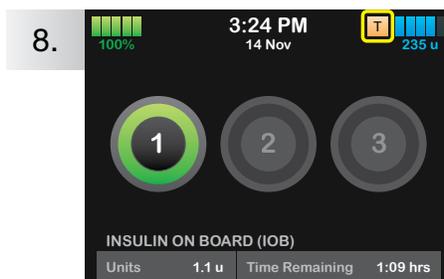
NOTE: To see the actual units to be delivered, tap **View Units**.



6. Verify settings and tap **✓**.

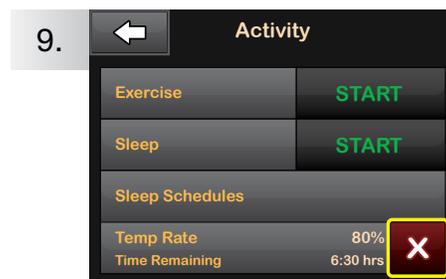


7. The **TEMP RATE STARTED** screen will appear to confirm the Temp Rate has started.



8. The **Lock screen** will appear with the orange **T** icon indicating a Temp Rate is active.

NOTE: If a Temp Rate of 0% is currently active, the orange **T** icon will be replaced with a red **T** icon.



9. **NOTE:** To stop a Temp Rate at any time, tap **OPTIONS**, then **Activity**, then tap **X**. A confirmation screen will appear. Tap **✓**.



Connecting the Dexcom G6 CGM Transmitter to the t:slim X2 Insulin Pump

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.



To connect Dexcom G6 CGM transmitter and Tandem pump:

EVERY 3 MONTHS

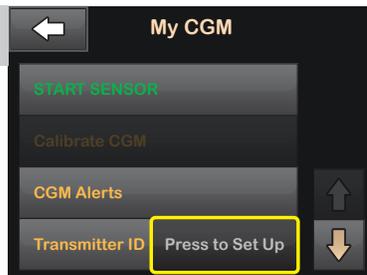
1.



NOTE: Before starting, make sure the Dexcom transmitter is linked with the user's t:slim X2 pump and not their Dexcom receiver. A single transmitter can't be connected to both at the same time.

Locate the ID on the bottom of the transmitter before attaching it to a sensor. The transmitter ID can also be found on the Dexcom transmitter box.

2.



In the Options menu, tap the **Down Arrow** > **My CGM**.

Tap **Press to Set Up** located next to Transmitter ID.

3.



Enter transmitter ID and tap .

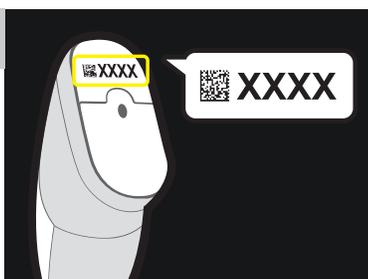
The user will be prompted to enter the ID again to verify accuracy, after which the transmitter will be connected.



To start a new sensor session:

EVERY 10 DAYS

1.



Locate the sensor code on the adhesive strip found on the bottom of the applicator.

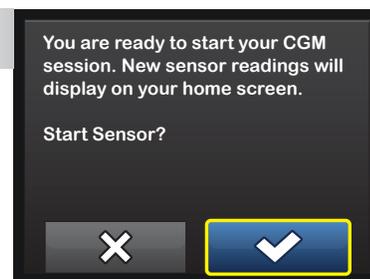
2.



In the Options menu, tap the **Down Arrow**, then: **My CGM** > **START SENSOR** > **CODE** and enter sensor code.

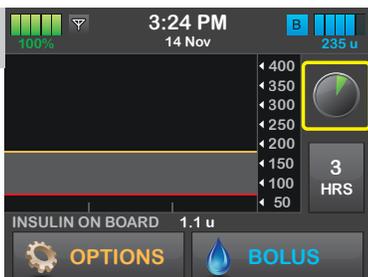
If user has already started a sensor session on the Dexcom mobile app, tap **My CGM** > **START SENSOR** > **SKIP**.

3.



Tap to confirm the start of a new CGM sensor session.

4.



NOTE: The countdown symbol fills in over time to show how much time is left before the system is ready to display the current CGM reading.

If a sensor code is not entered prior to starting a sensor session, the t:slim X2 insulin pump will prompt the user to calibrate using a blood glucose meter at regular intervals. By entering the sensor code, the user will not be prompted to calibrate the sensor.

If glucose alerts and readings do not match symptoms or expectations, use a blood glucose meter to make diabetes treatment decisions.

A symbol will appear on the Home screen to indicate the two-hour startup process has begun. During this time, user will not receive sensor data or be able to use advanced features such as Basal-IQ® or Control-IQ™ technology.

Dexcom G6 CGM and Tandem t:slim X2 Pump Connection Tips

To maintain a steady connection between the Dexcom G6 CGM and the Tandem t:slim X2 insulin pump, do the following:

- Keep the phone with the Dexcom mobile app close to the user. The Dexcom transmitter prioritizes communications with the Dexcom app—to stay connected to both devices, keep the phone within range.
- Make sure the pump and transmitter are on the same side of the user's body and that the pump screen is facing away from the body.
- If you are having difficulty pairing a Dexcom G6 transmitter with your t:slim X2 pump, try deleting and re-entering the transmitter ID.

For helpful videos, FAQs, and more information visit tandemdiabetes.com/CGMsupport

Dexcom Technical Support

- » Insertion issues
- » Site-related problems (discomfort, bleeding, adhesive)
- » Damaged CGM component

dexcom.com/support

Dexcom Care

- » Get started with Dexcom G6 CGM
- » Clinical account trainers and Certified Diabetes Educators (CDEs) available

1-877-339-2664
patientcare@dexcom.com

Tandem Technical Support

- » Signal issues
- » Error messages
- » Other events communicated by the t:slim X2 insulin pump

tandemdiabetes.com/support



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A free virtual pump demo



Important Safety Information: Caution: Federal (USA) law restricts the t:slim X2 insulin pump, the t:slim X2 pump with Basal-IQ technology, and Control-IQ technology to sale by or on the order of a physician. The t:slim X2 pump, the t:slim X2 pump with Basal-IQ technology, and Control-IQ technology are intended for single patient use. The t:slim X2 pump, the t:slim X2 pump with Basal-IQ technology, and Control-IQ technology are indicated for use with NovoLog or Humalog U-100 insulin. **t:slim X2 insulin pump:** The t:slim X2 insulin pump with interoperable technology is an alternate controller enabled (ACE) pump that is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The pump is able to reliably and securely communicate with compatible, digitally connected devices, including automated insulin dosing software, to receive, execute, and confirm commands from these devices. The pump is indicated for use in individuals 6 years of age and greater. **t:slim X2 insulin pump with Basal-IQ technology:** When used with a compatible integrated continuous glucose monitor (iCGM), the t:slim X2 insulin pump with Basal-IQ technology can be used to suspend insulin delivery based on CGM sensor readings. The t:slim X2 pump with Basal-IQ technology is indicated for use in individuals 6 years of age and greater. **Control-IQ technology:** Control-IQ technology is intended for use with a compatible integrated continuous glucose monitor (iCGM, sold separately) and ACE pump to automatically increase, decrease, and suspend delivery of basal insulin based on iCGM readings and predicted glucose values. It can also deliver correction boluses when the glucose value is predicted to exceed a predefined threshold. **Control-IQ technology is intended for the management of Type 1 diabetes mellitus in persons 14 years of age and greater.**

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in patients who require less than 10 units of insulin per day or who weigh less than 55 pounds.

Control-IQ technology and the t:slim X2 pump with Basal-IQ technology are not indicated for use in pregnant women, people on dialysis, or critically ill patients. Users of the t:slim X2 pump, the t:slim X2 pump with Basal-IQ technology, and Control-IQ technology must: be able and willing 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, transmitter, and sensor must be removed before MRI, CT, or diathermy treatment. For additional important safety information, visit tandemdiabetes.com/safetyinfo.

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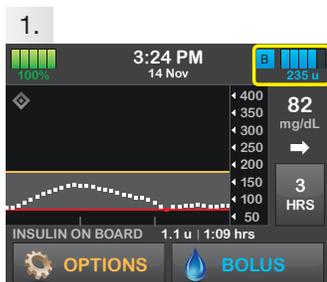
View Status (with CGM)

on the t:slim X2 Insulin Pump with Control-IQ Technology

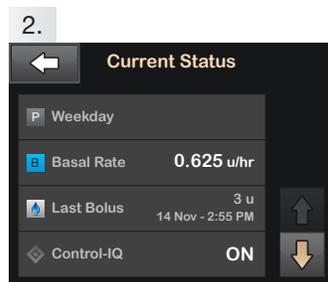


UNITS OF MEASURE MG/DL

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.



1. Tap the insulin level icon in the upper right corner of the Home screen.



2. Your t:slim X2 insulin pump will display the name of the user's active profile, the current basal rate, the time and amount of the last bolus, and whether or not they are using Control-IQ™ technology.

If the user has an active Extended Bolus, this screen will show how much insulin has been delivered out of the total amount requested.



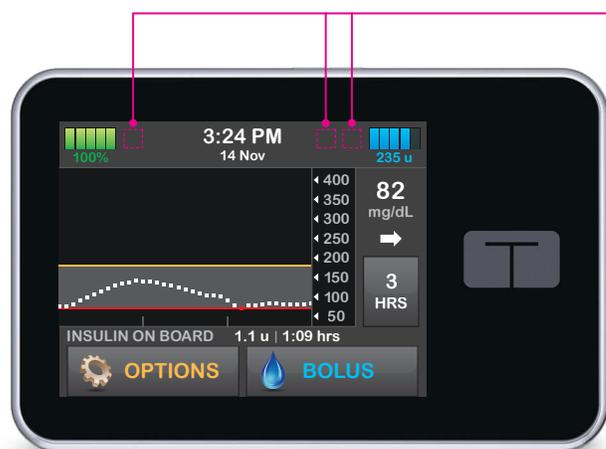
3. Tap the **Down Arrow** to display the current Correction Factor, Carb Ratio, Target BG, and Insulin Duration.



4. Tap the **Down Arrow** to display the Last Calibration, Time Sensor Started, Transmitter Battery status, and Mobile Connection status.



Explanation of Icons



The following icons may appear in the areas to the left or right of the time and date on the t:slim X2 insulin pump's Home screen:

- A system reminder, alert, error, or alarm is active.
- A bolus is being delivered.
- Basal insulin is programmed and being delivered.
- Control-IQ technology is increasing basal insulin delivery.
- All insulin deliveries are stopped.
- A temporary basal rate is active.
- Control-IQ technology is delivering an automatic correction bolus.
- A basal rate of 0 u/hr is active.
- CGM sensor session is active, and the transmitter is communicating with the pump.
- A temporary basal rate of 0 u/hr is active.
- CGM sensor session is active, but the transmitter is not communicating with the pump.



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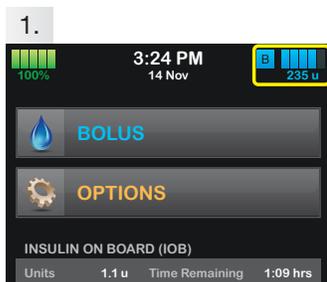
View Status (without CGM)

on the t:slim X2 Insulin Pump with Control-IQ Technology

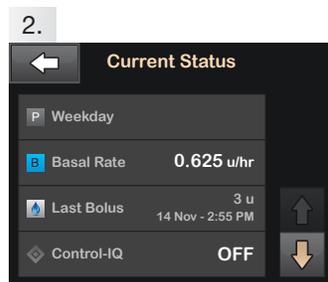


UNITS OF MEASURE MG/DL

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.

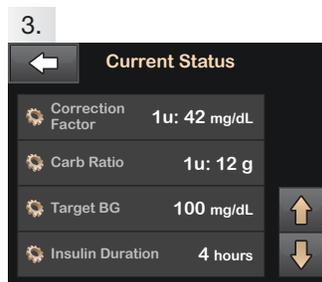


1. Tap the insulin level icon in the upper right corner of the Home screen.



2. Your t:slim X2 insulin pump will display the name of the user's active profile, the current basal rate, the time and amount of the last bolus, and whether or not they are using Control-IQ™ technology.

If the user has an active Extended Bolus, this screen will show how much insulin has been delivered out of the total amount requested.



3. Tap the **Down Arrow** to display the current Correction Factor, Carb Ratio, Target BG, and Insulin Duration.



4. Tap the **Down Arrow** to display the Last Calibration, Time Sensor Started, Transmitter Battery status, and Mobile Connection status.



Responsible Use of Control-IQ Technology

Even with advanced systems such as the t:slim X2 insulin pump with Control-IQ technology, patients 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 patients 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. Since there are situations and emergencies that the system may not be capable of identifying or addressing, patients should always pay attention to their symptoms and treat accordingly.



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WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in patients who require less than 10 units of insulin per day or who weigh less than 55 pounds.

Control-IQ technology is not indicated for use in pregnant women, people on dialysis, or critically ill patients. Users of the t:slim X2 pump and Control-IQ technology must: 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, transmitter, and sensor must be removed before MRI, CT, or diathermy treatment. For additional important safety information, visit tandemdiabetes.com/safetyinfo.

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How Does Control-IQ Technology Work?

Control-IQ™ technology is designed to help increase time in range (70–180 mg/dL)* using Dexcom G6 continuous glucose monitoring (CGM) values to predict glucose levels 30 minutes ahead and adjust insulin delivery accordingly, including delivery of automatic correction boluses (up to one per hour).

		Control-IQ	Sleep Activity	Exercise Activity
Delivers	Delivers an automatic correction bolus if sensor glucose is predicted to be above ____ mg/dL	180	--	180
Increases	Increases basal insulin delivery if sensor glucose is predicted to be above ____ mg/dL	160	120	160
Maintains	Maintains active Personal Profile settings when sensor glucose is between ____ - ____ mg/dL	112.5 - 160	112.5 - 120	140 - 160
Decreases	Decreases basal insulin delivery if sensor glucose is predicted to be below ____ mg/dL	112.5	112.5	140
Stops	Stops basal insulin delivery if sensor glucose is predicted to be below ____ mg/dL	70	70	80

*As measured by CGM.

Control-IQ Technology Pump Icons

Symbol	Meaning
	Control-IQ technology is on but not actively increasing or decreasing basal insulin delivery.
	Control-IQ technology is increasing basal insulin delivery.
	Control-IQ technology is decreasing basal insulin delivery.
	Control-IQ technology has stopped basal insulin delivery.
	Control-IQ technology is delivering an automatic correction bolus (or an automatic bolus).
	The Sleep Activity is enabled.

Symbol	Meaning
	Control-IQ technology is delivering the normal Personal Profile basal rate.
	Control-IQ technology is increasing basal insulin delivery.
	Control-IQ technology is decreasing the basal insulin delivery.
	Basal insulin delivery is stopped and a basal rate of 0 u/hr is active.
	Control-IQ technology is delivering an automatic correction bolus.
	The Exercise Activity is enabled.

Control-IQ Technology

for the t:slim X2 Insulin Pump

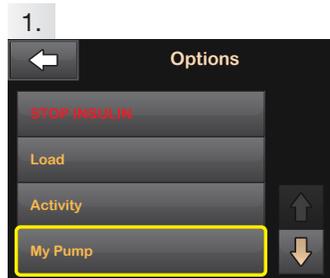


UNITS OF MEASURE MG/DL

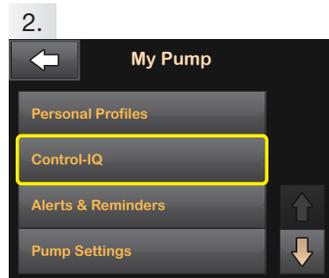
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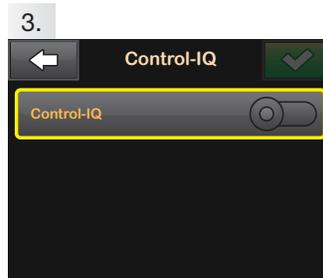
To turn Control-IQ technology On or Off:



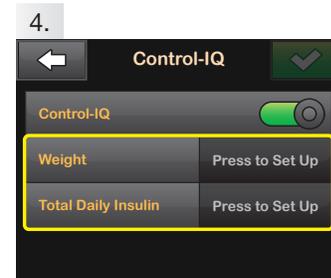
From the Options menu, tap **My Pump**.



Tap **Control-IQ**.

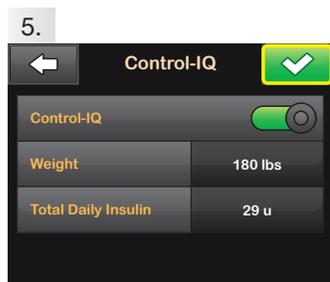


From this screen, Control-IQ technology can be toggled on or off.



Next, enter the user's weight in pounds and average daily insulin use in units. Total Daily Insulin should be an estimate of total basal and bolus insulin the user requires in a 24-hour period. Control-IQ technology cannot be enabled unless both weight and total daily insulin are entered.

NOTE: Existing t:slim X2 users can find their average Total Daily Insulin under **Options > History > Pump History > Delivery Summary > 14-day Average**.



Tap to save the settings.

Control-IQ technology is now on.

NOTE: Patient must enter their weight, Total Daily Insulin (TDI), have an active Personal Profile with CARBS turned on, and an active CGM session, in order to turn Control-IQ technology on.



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Sleep and Exercise Activities

for the t:slim X2 Insulin Pump with Control-IQ Technology



UNITS OF MEASURE MG/DL

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.

Sleep and Exercise Activities

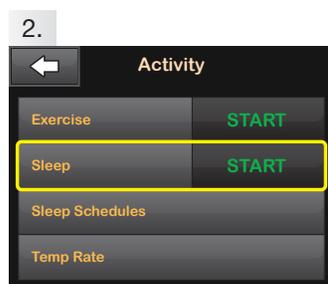
Control-IQ™ technology offers optional settings for Sleep and Exercise Activities that will change the treatment values when enabled.



To enable Sleep:

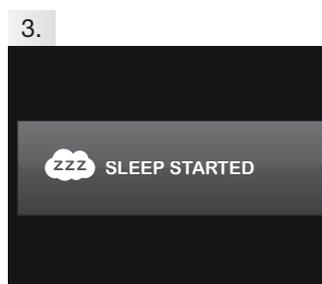


1. From the Options menu tap **Activity**.



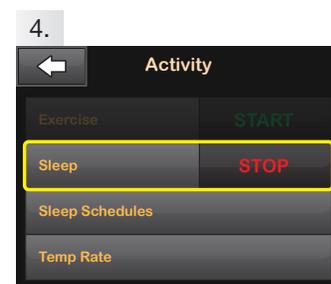
2. Tap **START** next to Sleep.

NOTE: Sleep and Exercise cannot be enabled at the same time.



3. Sleep is now enabled.

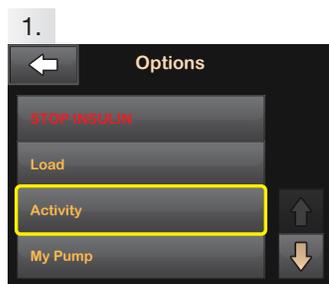
NOTE: To disable Sleep Activity, repeat the previous steps and tap **STOP**.



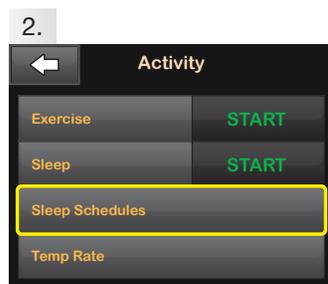
4. Tap **STOP** to turn Sleep off.

Using Sleep Schedules is Recommended

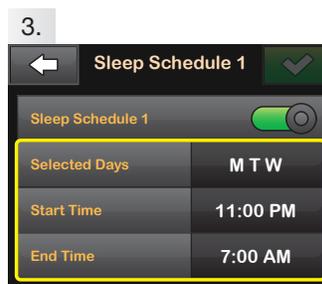
Within the Sleep Activity, users can set up two sleep schedules, which will automatically turn Sleep on and off at pre-programmed times. For example, one might be set up for weekdays and the other for weekends.



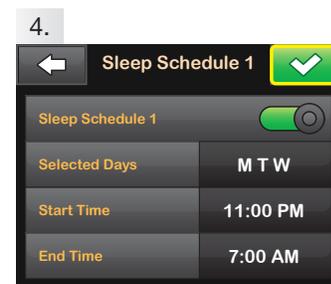
1. From the Options menu tap **Activity**.



2. Tap **Sleep Schedules**. Then, select one of the two Sleep Schedules to set it up.



3. Select any or all days of the week. Set the time that the sleep function will start and end on those days. These times should reflect the time the user generally goes to sleep and wakes up.



4. Tap to save the settings.

NOTES:

- » No Automatic Correction Boluses will be delivered during Sleep.
- » If not using pre-programmed Sleep Schedules, Sleep must be manually turned on and off.
- » If you have a Sleep Schedule set and go to bed earlier/later it will still turn off at the programmed time.
- » If Exercise is enabled at the time sleep is scheduled to start, Sleep will not begin. Once Exercise is turned off, the user will need to manually start Sleep or wait until the next scheduled sleep cycle.

Sleep and Exercise Activities

for the t:slim X2 Insulin Pump with Control-IQ Technology



UNITS OF MEASURE MG/DL

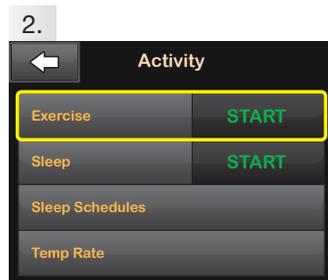
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.



To enable Exercise:



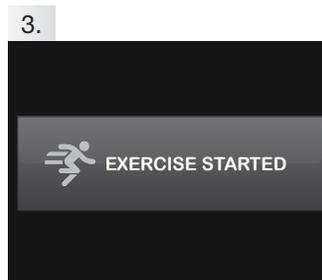
1. From the Options menu tap **Activity**.



2. Tap **START** next to Exercise.

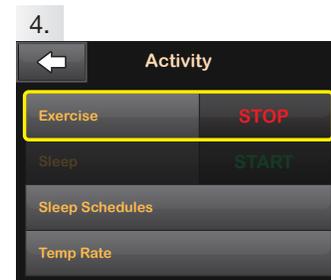
NOTE: Exercise and Sleep cannot be enabled at the same time.

NOTE: If Exercise is active at the time sleep is scheduled to start, Sleep will not begin. Once Exercise is turned off, the user will need to manually start Sleep or wait until the next scheduled sleep cycle.



3. Exercise is now enabled.

NOTE: To disable Exercise Activity, repeat the previous steps and tap **STOP**.



4. Tap **STOP** to turn Exercise off.



Responsible Use
of Control-IQ
Technology

Even with advanced systems such as the t:slim X2 insulin pump with Control-IQ technology, patients 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 patients 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. Since there are situations and emergencies that the system may not be capable of identifying or addressing, patients should always pay attention to their symptoms and treat accordingly.



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t:simulator™ App
A free virtual pump demo



Important Safety Information: Caution: Federal (USA) law restricts the t:slim X2 insulin pump and Control-IQ technology to sale by or on the order of a physician. The t:slim X2 pump and Control-IQ technology are intended for single patient use. The t:slim X2 pump and Control-IQ technology are indicated for use with NovoLog or Humalog U-100 insulin. **t:slim X2 insulin pump:** The t:slim X2 insulin pump with interoperable technology is an alternate controller enabled (ACE) pump that is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The pump is able to reliably and securely communicate with compatible, digitally connected devices, including automated insulin dosing software, to receive, execute, and confirm commands from these devices. The t:slim X2 pump is indicated for use in individuals 6 years of age and greater. **Control-IQ technology:** Control-IQ technology is intended for use with a compatible integrated continuous glucose monitor (iCGM, sold separately) and ACE pump to automatically increase, decrease, and suspend delivery of basal insulin based on iCGM readings and predicted glucose values. It can also deliver correction boluses when the glucose value is predicted to exceed a predefined threshold. **Control-IQ technology is intended for the management of Type 1 diabetes mellitus in persons 14 years of age and greater.**

WARNING: Control-IQ technology should not be used by anyone under the age of six years old. It should also not be used in patients who require less than 10 units of insulin per day or who weigh less than 55 pounds.

Control-IQ technology is not indicated for use in pregnant women, people on dialysis, or critically ill patients. Users of the t:slim X2 pump and Control-IQ technology must: 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, transmitter, and sensor must be removed before MRI, CT, or diathermy treatment. For additional important safety information, visit tandemdiabetes.com/safetyinfo.

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Pairing the t:connect Mobile App with the t:slim X2 Insulin Pump

The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2™ insulin pump, please refer to its user guide.

Download the App

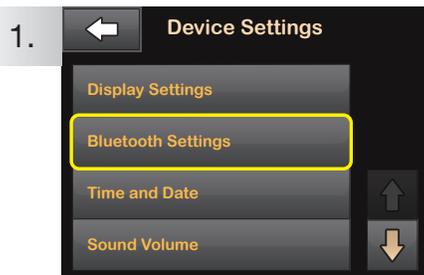
Pairing the t:slim X2 insulin pump with a phone via *Bluetooth*® technology will allow the pump to properly communicate with the t:connect® mobile app. If the proper software version is installed on the pump, the whole process should take less than five minutes.

To begin the pairing process, visit the Google Play store or the Apple App Store, search for “Tandem Diabetes” and select “t:connect mobile” from the results. It is recommended to upload pump data via USB prior to syncing your pump with the app.

 t:connect Mobile App

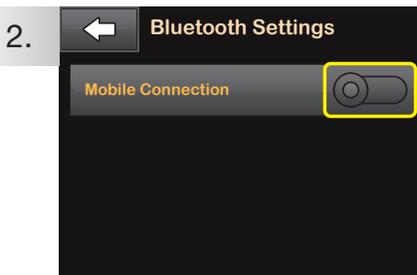


Enable Bluetooth Connection

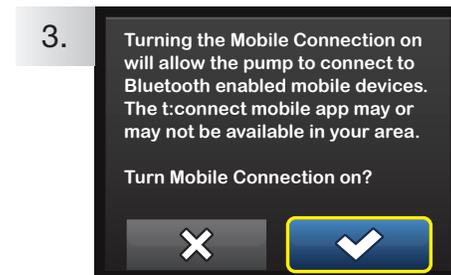


1. Unlock the pump, tap **OPTIONS**, tap **↓**, tap **Device Settings**, then select **Bluetooth Settings**.

NOTE: If Bluetooth Settings is not an option, you may need to update your pump software. Visit portal.tandemdiabetes.com to check for available software updates.

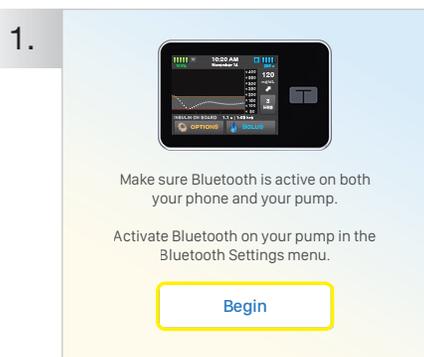


2. Tap the toggle to turn on the Mobile Connection and enable Bluetooth.



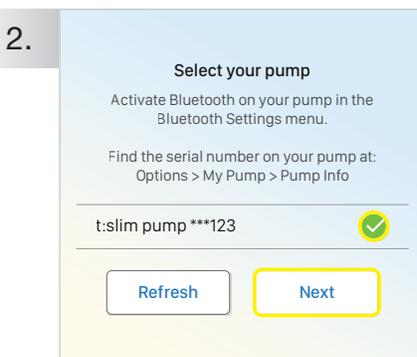
3. Select to turn on the Mobile Connection. A brief confirmation screen will show that the ability to connect to a mobile device is now turned on.

Pair App With Pump

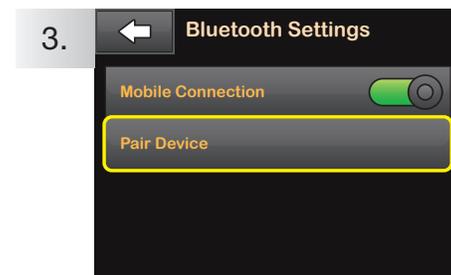


1. Go to the t:connect mobile app, login, and select **Begin** to start the pairing process. Select **OK** on the confirmation screen.

NOTE: Make sure that the Bluetooth setting on the device has already been turned on.



2. Make sure the pump is within close proximity to the phone. Once a connection is established, select the radio button next to the pump's serial number and tap **Next**.

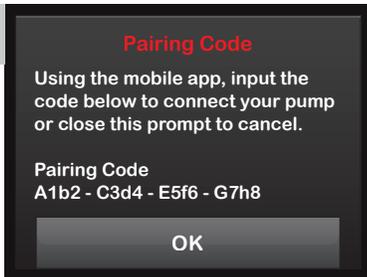


3. On the pump, select **Pair Device** and then press to continue.



Pair App With Pump (continued)

4.

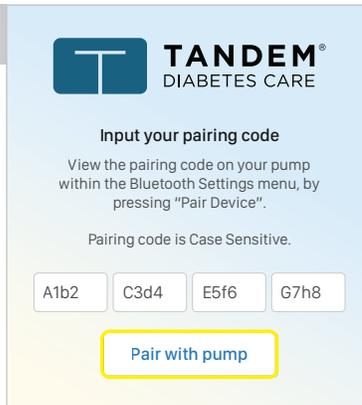


A unique pairing code will be automatically generated.

NOTE: DO NOT press OK located under the unique pairing code, as this will cancel the pairing process.

NOTE: The unique code is only valid for five minutes. If the code expires, the pairing process must be restarted by selecting Pair Device from the Bluetooth Settings screen.

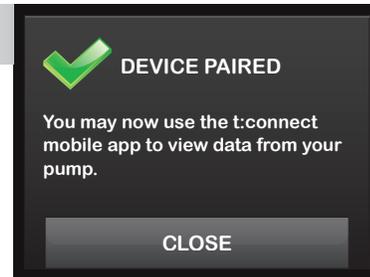
5.



Enter the code that is displayed on the pump directly into the mobile app and press **Pair with pump**.

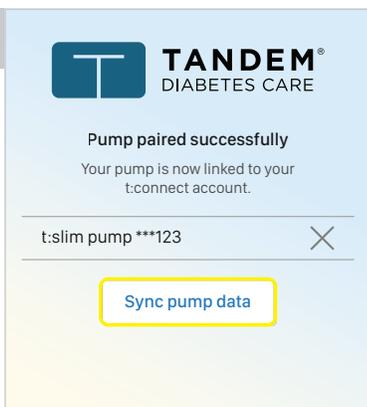
NOTE: The code is case sensitive and must be entered exactly as it is displayed. Your unique code is only valid for five minutes. If the code expires, you will need to begin the pairing process again.

6.



Once the code has been successfully entered, a confirmation screen will appear on the pump. Tap **CLOSE**.

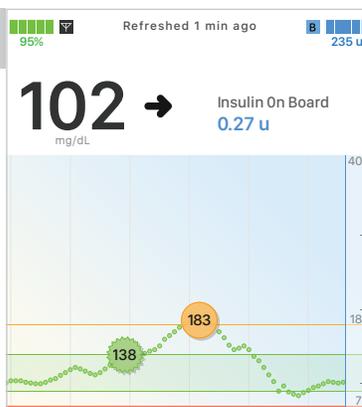
7.



Press **Sync pump data**. The app will then import recent data from the insulin pump.

NOTE: It is recommended to upload current pump data via USB to the t:connect web application prior to syncing your pump with the app.

8.



The app now displays the pump data and is ready for viewing.

NOTE: Data uploads to t:connect do not take place in real-time and require an internet or wireless data connection.



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t:connect Mobile App



The information on the t:connect mobile app display may not be identical to the current status of your pump. Wireless uploads from the t:connect mobile app to the cloud-based t:connect web application require a compatible phone and an internet or wireless data connection. Uploads to the t:connect web application do not take place in real time and should not be relied upon by healthcare providers or caregivers for remote patient monitoring. Standard carrier data rates may apply.

Important Safety Information: Caution: Federal (USA) law restricts this device to sale by or on the order of a physician. The t:slim X2 insulin pump with interoperable technology is an alternate controller enabled (ACE) pump that is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The pump is able to reliably and securely communicate with compatible, digitally connected devices, including automated insulin dosing software, to receive, execute, and confirm commands from these devices. The pump is indicated for use in individuals 6 years of age and greater. The pump is intended for single patient, home use and requires a prescription. The pump is indicated for use with NovoLog or Humalog U-100 insulin. The t:slim X2 pump must be removed before MRI, CT, or diathermy treatment. Visit tandemdiabetes.com/safetyinfo for additional important safety information.

t:connect mobile app: The t:connect mobile app is intended to be a secondary display for compatible Tandem Diabetes Care® insulin pumps and is capable of wirelessly uploading pump data it receives into the t:connect web application. The t:connect mobile app is not intended to control an insulin pump and is not intended to be a replacement for the information displayed on your insulin pump. Dosing decisions should not be made based on this device. The user should follow instructions on the continuous glucose monitoring system. This device is not intended to replace self-monitoring practices as advised by a physician.

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What is a carbohydrate?

Calories from food derive from three nutrients: protein, fat, and carbohydrate. Each nutrient affects glucose differently, but carbohydrate has the greatest impact. Within minutes of eating carbohydrate, sugars and



Grains (ex: bread, cereal, rice, pasta)



Starchy vegetables
(ex: potatoes, corn, peas, beans)



Non-starchy vegetables contain a small amount of carbohydrate

starches are broken down into glucose, and glucose levels start to rise. Insulin helps the body absorb the glucose and use it for energy. Below is a short list of common foods that contain carbohydrate:



Fruits and fruit juice
(ex: orange, apple, grapefruit)



Milk and other dairy products
(ex: skim milk, yogurt, ice cream)



Desserts and other snacks
(ex: cupcake, cookies, popcorn)

What is carbohydrate counting?

Carbohydrate counting is a method of estimating the amount of carbohydrates in food. When combined with insulin pump therapy, carbohydrate counting offers more flexibility with food choices and meal timing by matching insulin more precisely with carbohydrate.

Estimating Carbohydrates

It is easy to under- or overestimate the amount of carbohydrate you are eating. Countless resources are available to help you estimate carbohydrate in food. Some options are listed below:

- Printed and online resources in the form of books, cookbooks, handouts, restaurant guides, etc.
- Software applications for your mobile device
- Nutrition Facts Labels (see reverse side)

Weighing and Measuring Foods

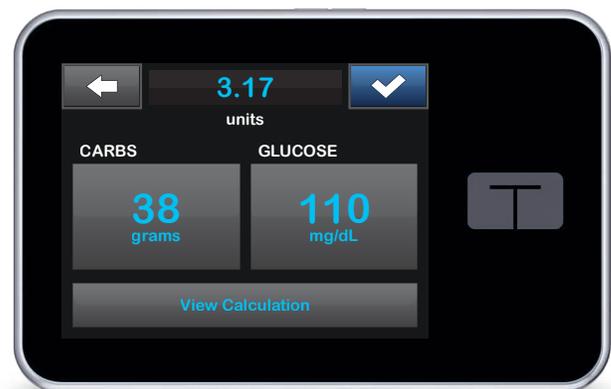
Weighing and measuring the food you eat can help keep your carbohydrate counting accurate. Using measuring utensils helps “train the eye” to better estimate portions.

- Use a dry measuring cup for measuring solid foods. The food should be level with the top of the cup.



TRAINING TIP: The amount of carbohydrate needed varies from person to person. Speak with your healthcare provider for recommendations.

- Use a liquid measuring cup for measuring liquids. The liquid should be at level with the measurement line.
- Use a kitchen scale for food that will not easily fit into measuring cups, like whole fruit or bread.



The amount of carbohydrate entered into your pump will determine how much insulin will be calculated and delivered as a Food Bolus.

Carbohydrate Reference Guide

Each food item in the guide below represents a 15-gram carbohydrate choice. These are not suggested portions, but an added resource for estimating carbohydrate.

15 Grams of Carbohydrate	
Fruit, Juice, Dairy	Portion
Apple, Orange, Peach, or Pear (small)	1
Banana (very small)	1
Berries (black, blue, or raspberry)	3/4 cup
Canned Fruit (unsweetened)	1/2 cup
Fruit Juice (orange, apple, grape, etc)	1/2 cup
Melon (cubed)	1 cup
Milk (skim, low fat, or whole)	1 cup
Strawberries (whole)	1 1/4 cup
Yogurt (plain or artificially sweetened)	2/3 cup

15 Grams of Carbohydrate	
Starches	Portion
Bagel (large)	1/4
Bread (white or whole wheat)	1 slice
Corn, Peas, or Beans (cooked)	1/2 cup
Grits or Unsweetened Oatmeal (cooked)	1/2 cup
Hamburger or Hot Dog Bun	1/2
Mashed Potatoes (plain white or sweet)	1/2 cup
Pancake or Waffle (4 inches)	1
Potato (large, baked)	1/4
Rice or Pasta (cooked)	1/3 cup
Tortilla (corn)	1
Tortilla (flour)	1/2

Note: Please refer to our Guide to Successful Pumping for a more complete list.

Nutrition Facts Label

Regulated by the U.S. Food and Drug Administration, the Nutrition Facts Label is the most reliable and easy-to-use resource for estimating carbohydrate in foods.

SERVING SIZE

The Serving Size is based on one serving. It is not a suggested serving, but a reference for all of the label information. The listed Serving Size may be different than the amount you are eating.

Nutrition Facts	
8 servings per container	
Serving size	2/3 cup (55g)
Amount per serving	
Calories	230
% Daily Value*	
Total Fat 8g	10%
Saturated Fat 1g	5%
Trans Fat 0g	
Cholesterol 0mg	0%
Sodium 160mg	7%
Total Carbohydrate 37g	13%
Dietary Fiber 4g	14%
Total Sugars 12g	
Includes 10g Added Sugars	20%
Protein 3g	
Vit. D 2mcg 10% • Calcium 260mg 20%	
Iron 8mg 45% • Potas. 235mg 6%	

TOTAL CARBOHYDRATE

Keep your focus on Total Carbohydrate. This reflects all carbohydrate including sugars, starch, dietary fiber, sugar alcohol, and others.

In this example, two-thirds of a cup contains 37 grams of carbohydrate. Let's consider different serving sizes:

- 19 grams in one-third of a cup
- 14 grams in one-fourth of a cup



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Flying with your Tandem Insulin Pump

If you plan to travel by air with your insulin pump, some advance planning may make your security screening go smoother. Your device is safe for use during air travel and complies with FAA wireless transmission standards. It is also designed to withstand common electromagnetic interference and can be safely carried through metal detectors.

However, your Tandem insulin pump should **NOT** be put through machines that use X-rays, including airline luggage X-ray machines and full-body scanners. We recommend disconnecting at the infusion site and asking the security agent for an alternative screening method. If you prefer to stay connected, you can notify the agent about your pump and request to go through a standard metal detector wearing your pump.

It may be helpful to provide a printout of the information below to the security agent with your pump during screening. If you have any questions about traveling with your pump, please call Tandem Customer Support at (877) 801-6901*. We are here for you 24 hours a day, 7 days a week.

*If you are outside of the U.S. and need to contact customer support, please call +1-858-255-6269.

Fold here

Dear TSA or airport representative

This is an insulin pump from Tandem Diabetes Care, a life-sustaining medical device prescribed by a physician. It is designed to withstand common electromagnetic interference and can be safely carried through metal detectors, but **should not be exposed to any form of X-rays**. This includes airline luggage X-ray machines and full-body scanners.

Please provide a screening method other than X-ray for this insulin pump. If you have any questions about this device, please call Tandem Customer Support at (877) 801-6901*. We are available 24 hours a day, 7 days a week.

Sincerely,



www.tandemdiabetes.com



Metal Detectors



X-rays, including full body scanners and luggage screening machines



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