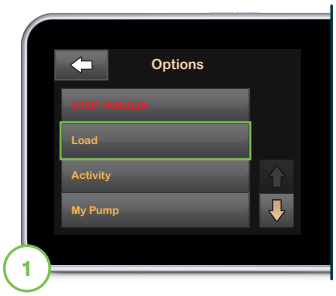
T:SLIM X2 INSULIN PUMP

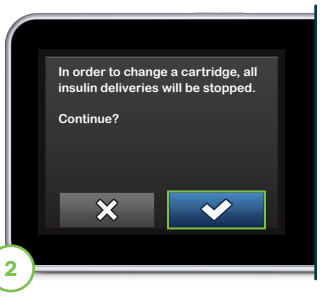
Load a Cartridge

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.



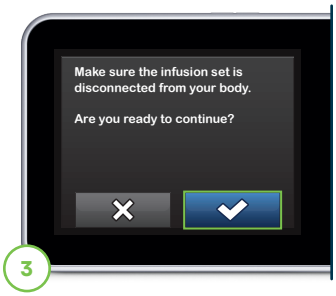
1

From the **Options** menu, tap **Load**. Tap **Change Cartridge**.



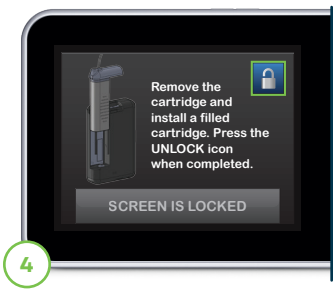
2

A screen will appear to confirm that all insulin deliveries will be stopped. Tap ✓ to continue.



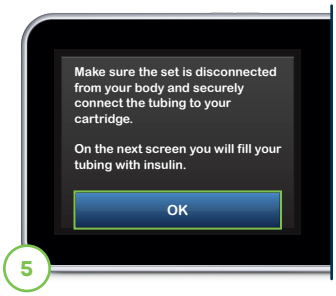
3

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 OK to confirm.

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**.

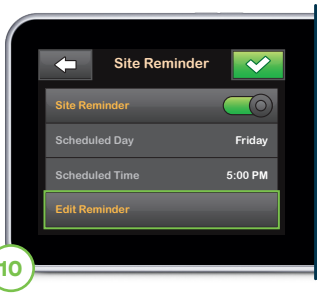
8

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

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

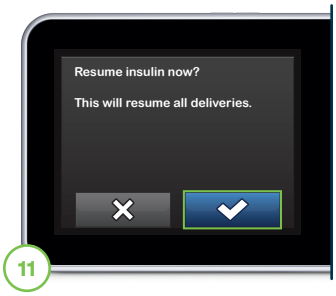
9

Tap **Edit Fill Amount**. Select amount needed. 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 ✓ to continue. A reminder to test blood glucose (BG) in 1–2 hours will display. Tap ✓ to confirm.

12

The RESUMING INSULIN screen will appear.

Instructions for drawing insulin from vial into syringe

Use proper clean technique while performing the following instructions.

01 Inspect the needle and syringe package for any signs of damage. Discard any damaged product.

02 Wash hands thoroughly.

03 Wipe the rubber septum of the insulin vial with an alcohol swab.

04 Remove the needle and syringe from their packaging. Securely twist needle onto syringe. Safely remove protective cap from needle by pulling outward.

05 Draw air into syringe up to the amount of insulin desired **(see image A).**

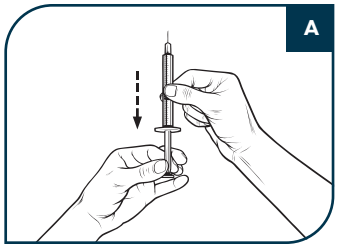
06 With insulin vial upright, insert needle into vial. Inject air from syringe into vial. Maintain pressure on syringe plunger **(see image B).**

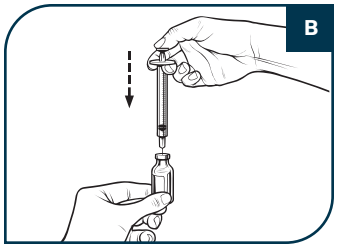
07 With needle still inserted into vial, turn vial and syringe upside down. Release syringe plunger. Insulin will begin to flow from the vial into the syringe.

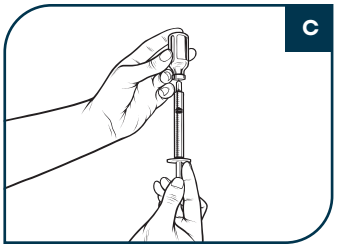
08 Slowly pull back the plunger to the desired amount of insulin **(see image C).**

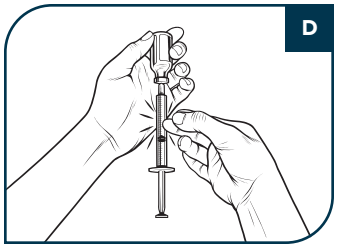
09 While the filling needle is still in the vial and upside down, tap the syringe so that any air bubbles rise to the top **(see image D).** Then slowly push the plunger upwards, forcing any air bubbles back into the vial.

10 Check the syringe for air bubbles and do one of the following:
   a. If there are air bubbles present, repeat step 9.
   b. 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. Refer to the User Guide that came with the system for detailed installation instructions. If instructed to load an unused (empty) cartridge, perform the following after loading the cartridge onto the pump. If instructed to load a filled cartridge, perform the following before loading the cartridge onto the pump.

01 Inspect the cartridge package for any signs of damage. Discard any damaged product.

02 Open the package and remove the cartridge.

03 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.

04 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.

05 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).**

06 Withdraw the needle from the fill port.

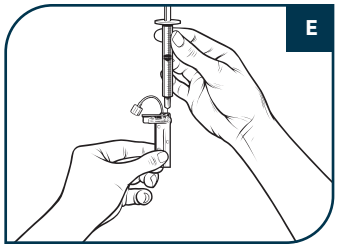
07 Turn the syringe upright and pull down on the plunger **(see image H).** Flick the barrel to make sure that any air bubbles rise to the top.

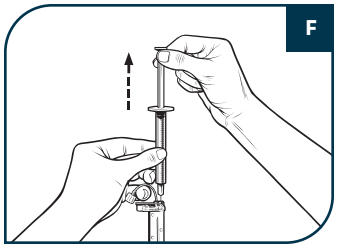
08 Gently press on the plunger to remove air bubbles until insulin fills the needle hub and you see a drop of insulin at the tip of the needle **(see image I)**.

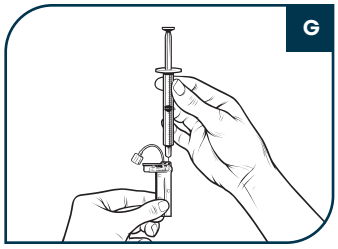
09 Re-insert the needle in the fill port and slowly fill the cartridge with insulin **(see image J)**. It is normal to feel some back pressure as the plunger is depressed.

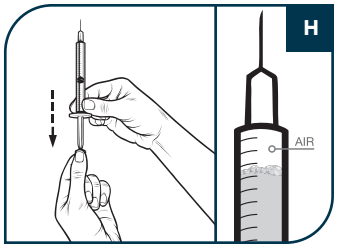
10 Maintain pressure on the plunger while the needle is removed from the cartridge. Check the cartridge for leaks. If insulin leakage is detected, discard the cartridge and repeat entire process with a new cartridge.

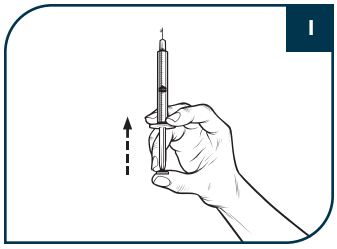
11 Always dispose of used needles, syringes, cartridges, and infusion sets following community regulations.

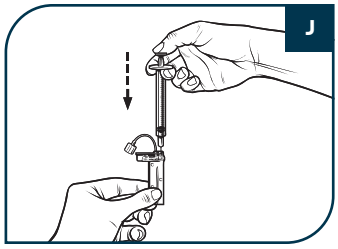












DIABETES RESOURCE SHEET

Troubleshooting Your Glucose

MG/DL

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.

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.

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.

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

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 with syringe or pen, 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.

If Ketones Are **NEGATIVE**

- **Visually inspect** entire infusion set and site. Correct any problems if identified (see back).
- **Use a correction factor** to calculate and administer insulin by syringe or pen.
- **Drink 8-12 ounces** of sugar-free fluids every 30 minutes to prevent dehydration.
- **Continue to monitor** every 1-2 hours until glucose returns to normal.

If glucose is not responding to the correction bolus, follow procedure for positive ketones.

If Ketones Are **POSITIVE**

- **Use a correction factor** to calculate and administer insulin by syringe or pen.
- **Change entire** infusion set and site using a new cartridge and new insulin.
- **Drink 8-12 ounces** of sugar-free fluids every 30 minutes to prevent dehydration.
- **Continue to monitor** every 1-2 hours until glucose returns to normal.

If glucose is not responding or if vomiting begins, contact your healthcare provider, go to the ER, or call 911.

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 (e.g., 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

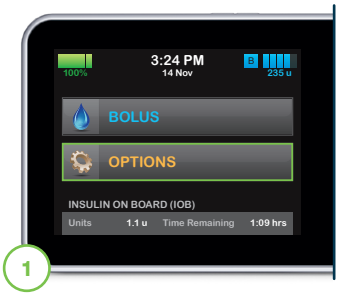
Important Safety Information: RX ONLY. The t:slim X2 insulin pump with interoperable technology is an alternate controller enabled (ACE) pump that is intended for the subcutaneous delivery of insulin, at set and variable rates, for the management of diabetes mellitus in people requiring insulin. The 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 six 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. Users of the pump must: be willing and able to use the insulin pump 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. 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.

T:SLIM X2 INSULIN PUMP

Stop / Resume Insulin

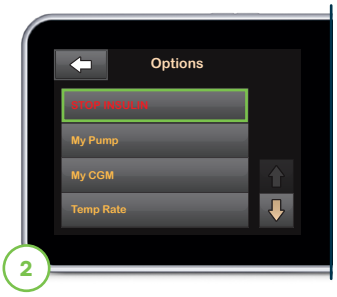
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 insulin pump, please refer to its user guide.

Stop insulin delivery



1

Tap **OPTIONS**.



2

Tap **STOP INSULIN**.

3

Tap ✔ to accept the displayed setting. To change the Resume Pump Alarm setting, tap the panel in the middle of the screen.

Note: The pump will NOT automatically resume insulin delivery after the time has elapsed. The user will receive a Resume Pump Alarm after the selected duration (15 min, 30 min, 45 min, or 1 hour).

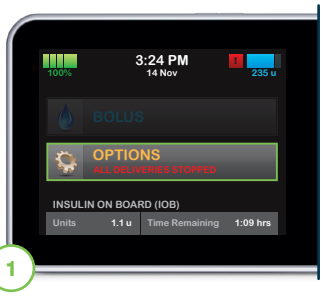
4

Select the button that corresponds with the time you would like the Resume Pump Alarm to display.

If a different value is selected, the pump will return to the previous confirmation screen with the updated selection.

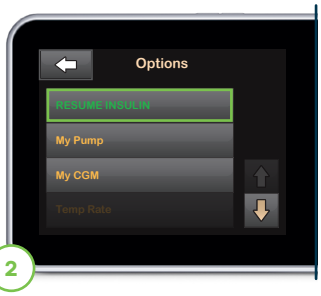
Resume insulin delivery

Note: If the timer of a temp rate is still active when insulin is resumed, the temp rate will continue. If any bolus is being delivered before you stop insulin, the remaining insulin to be delivered will be canceled.



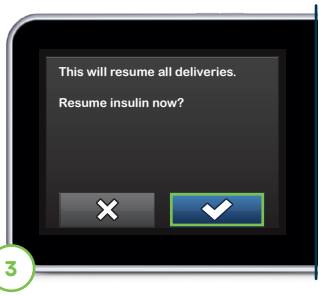
1

Tap **OPTIONS**.



2

Tap **RESUME INSULIN**.



3

Tap ✔ to confirm.

T:SLIM X2 INSULIN PUMP

Deliver a Bolus

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 **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.

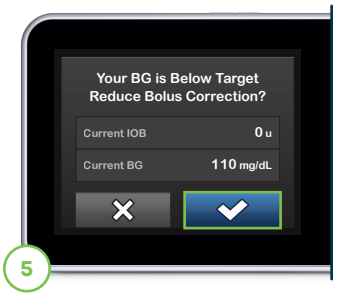
3

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. Tap ✓ to accept that reduction; otherwise, tap ✗.

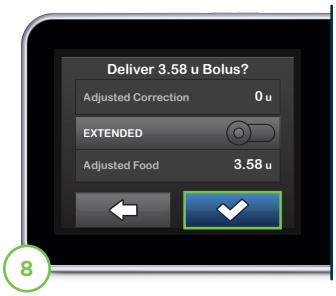
6

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

7

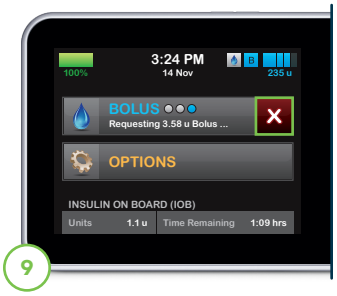
Verify the dose and tap ✓ to confirm.

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 "X" next to BOLUS on the Home screen, then tap ✓ to confirm canceled bolus.

DIABETES RESOURCE SHEET

Carbohydrate Counting

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 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:

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

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

Non-starchy vegetables contain a small amount of 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.
+ Use a liquid measuring cup for measuring liquids. The liquid should be level with the measurement line.
+ Use a kitchen scale for food that will not easily fit into measuring cups, like whole fruit or bread.

⚑ **Training Tip:** The amount of carbohydrate needed varies from person to person. Speak with your healthcare provider for recommendations.

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

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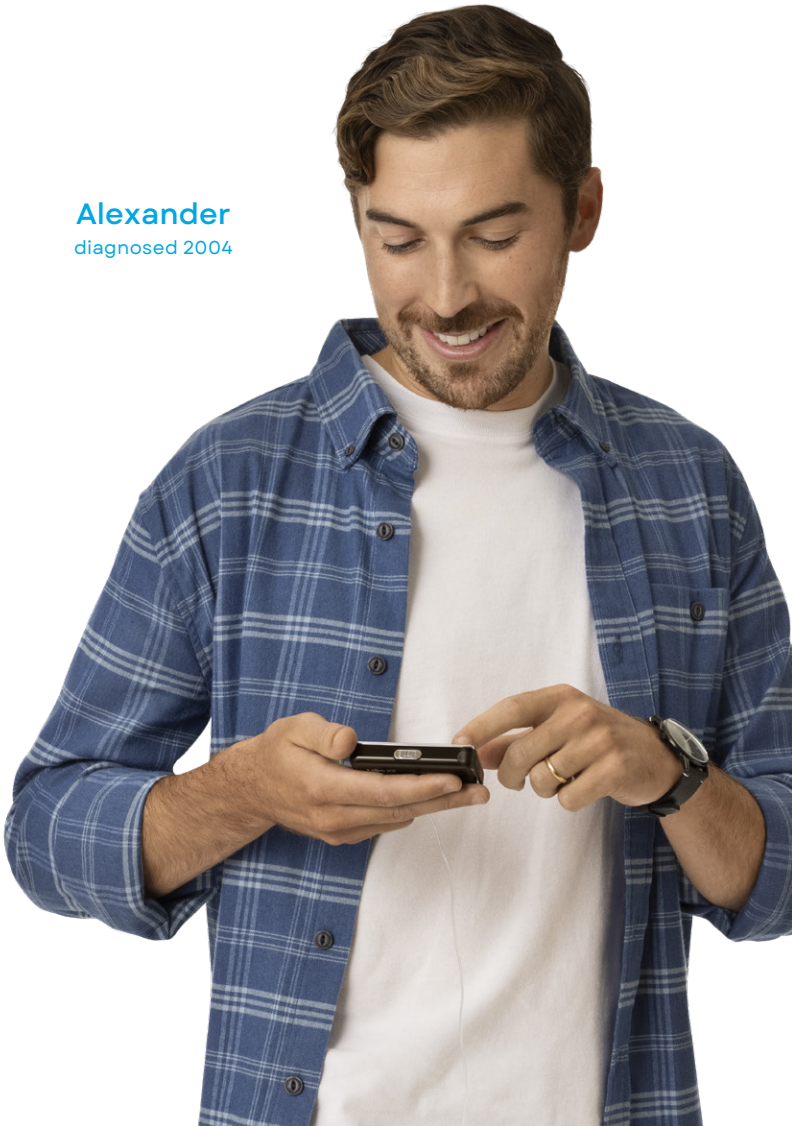


Carbohydrate reference guide

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

Important Safety Information: Caution: RX ONLY. 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 six 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. Users of the pump must: be willing and able to use the insulin pump 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. 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.

T:SLIM X2 INSULIN PUMP

Pairing the t:connect Mobile App

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 smartphone 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 App Store, search for "Tandem Diabetes" and select "t:connect mobile" from the results. We recommend uploading pump data via USB to the t:connect web application prior to syncing the pump with the app.

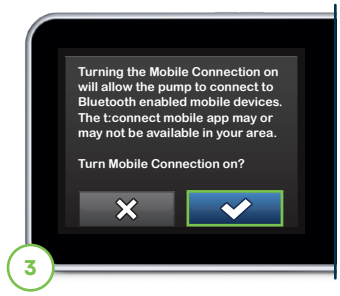
Enable Bluetooth connection

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.

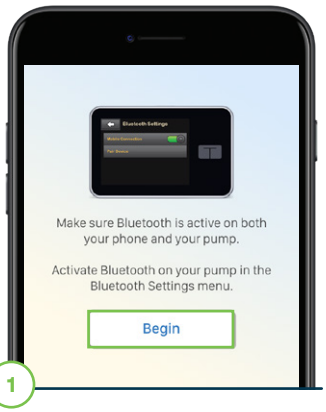
Unlock the pump, tap **OPTIONS**, tap **Down Arrow**, tap **Device Settings**, and then select **Bluetooth Settings**.

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



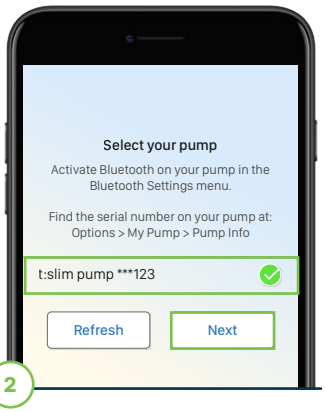
Select ✓ to turn on the Mobile Connection. A brief confirmation screen will show that the ability to connect to a mobile device is now turned on.

Pair app with pump

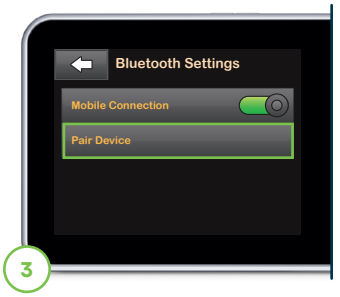


Go to the t:connect mobile app, log in, and select **Begin** to start the pairing process. Select **OK** on the confirmation screen.

Note: Make sure that the Bluetooth setting on the phone has already been turned on.



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**.



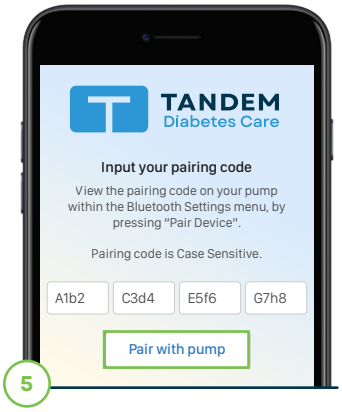
On the pump, select **Pair Device** and then press ✓ to continue.

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.

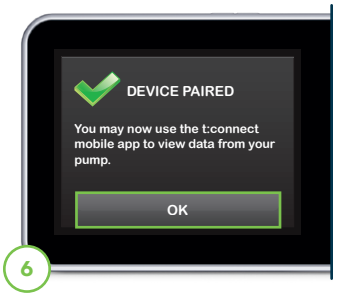
Pair app with pump (continued)



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.



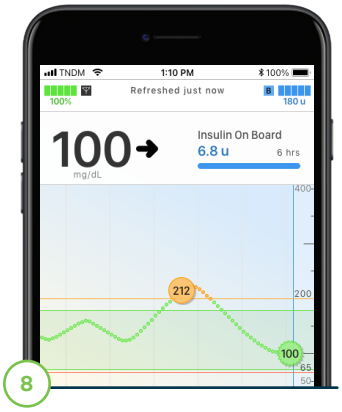
6

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

7

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

Note: We recommend uploading pump data via USB to the t:connect web application prior to syncing the pump with the app.



8

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

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

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 used or relied upon by healthcare providers or caregivers for remote patient monitoring. Standard carrier data rates may apply.

Important Safety Information: RX ONLY. 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 six 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. Users of the pump must: be willing and able to use the insulin pump 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. 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.

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 the secondary display device. The user should follow instructions on the continuous glucose monitoring system and insulin pump. This secondary display device is not intended to replace self-monitoring practices as advised by a physician.

T:SLIM X2 INSULIN PUMP

Connecting to Dexcom G6 CGM

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.

Option A: With both the Dexcom G6 app and t:slim X2 insulin pump

New Dexcom CGM User

Prior to pump training, download the Dexcom G6 app on the user's mobile device and follow the onscreen instructions to initiate continuous glucose monitoring (CGM). Then proceed to step 1 in the section below.

GET IT ON Google Play | Download on the App Store

Note: If the user doesn't plan on using the Dexcom G6 app or is unable to initiate Dexcom CGM on their device, then follow the instructions under Option B on page 3.

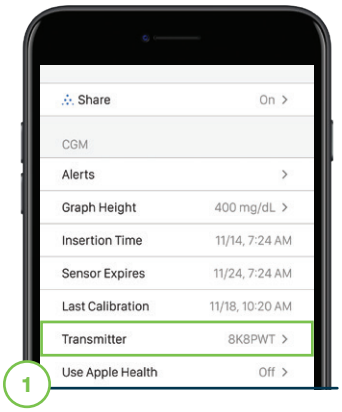
or

Current Dexcom CGM User

A single Dexcom CGM transmitter cannot be connected to the t:slim X2 insulin pump and Dexcom receiver at the same time. If the user is currently using both the Dexcom G6 app and Dexcom receiver, turn off the receiver and then proceed to step 1 in the section below. If the user is only using the Dexcom G6 app, then also proceed to step 1.

Note: If the user is only using the Dexcom receiver and doesn't plan on using the Dexcom G6 app, then write down the user's transmitter ID before turning the receiver off and then follow the instructions under Option B on page 3.

CONNECT THE TRANSMITTER (EVERY 3 MONTHS)



1

Locate the transmitter ID under the **Settings** menu of the Dexcom G6 app. The ID can also be found on the Dexcom transmitter box.

2

In the **Options** menu on the t:slim X2 insulin pump, tap the **Down Arrow** and then **My CGM**.

3

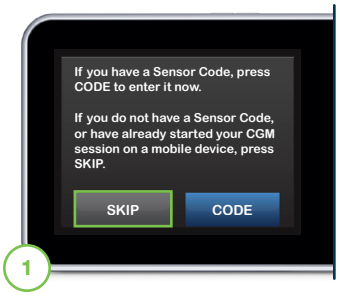
Tap **Press to Set Up** located next to Transmitter ID.

Note: To prevent calibration alerts, do not initiate a new transmitter in the Dexcom G6 app and t:slim X2 insulin pump at the same time. Wait until after the sensor warm-up period to enter the transmitter ID on the other device.

4

Enter transmitter ID and tap ✓ to continue. Users will be prompted to enter the ID again to verify accuracy, after which the transmitter will be connected.

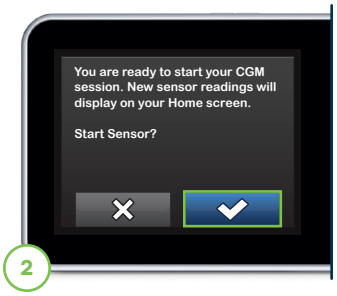
START SENSOR SESSION (EVERY 10 DAYS)



1

If the user has already started a sensor session on the Dexcom G6 app, then in the **Options** menu on the t:slim X2 insulin pump, tap the **Down Arrow**, **My CGM**, **START SENSOR**, and then **SKIP**.

Note: To prevent sensor failures, do not start a new sensor session in both the Dexcom G6 app and t:slim X2 insulin pump. The other device will automatically pick up the signal.



2

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

3

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

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.

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

TIPS TO MAINTAIN A STEADY CONNECTION

If you are having difficulty pairing a Dexcom transmitter with the user's t:slim X2 insulin pump, try deleting and entering the transmitter ID again.

If using the Dexcom G6 app, keep the phone close to the user's body to stay connected with both devices.

Make sure that the Dexcom transmitter is securely snapped into the Dexcom sensor tray.

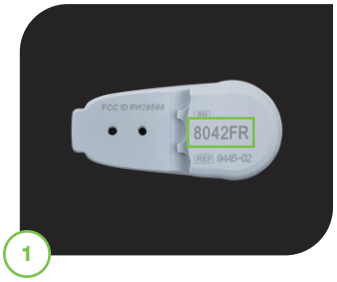
Make sure the pump and transmitter are on the same side of the user's body and that the pump screen is facing away from their body.

After trying any of these tips, be sure to give your t:slim X2 insulin pump 10-15 minutes to reconnect.
Visit **support.tandemdiabetes.com** for helpful videos, frequently asked questions, and more information.

Option B: With only the t:slim X2 insulin pump

A single Dexcom CGM transmitter cannot be connected to the t:slim X2 insulin pump and Dexcom receiver at the same time. If the user is currently using the Dexcom receiver, turn off the receiver and then proceed to step 1 in the first section below.

CONNECT THE TRANSMITTER (EVERY 3 MONTHS)



1

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

2

In the **Options** menu on the t:slim X2 insulin pump, tap the **Down Arrow** and then **My CGM**.

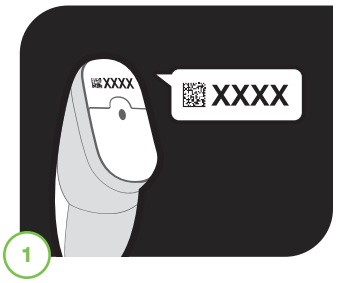
3

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

4

Enter transmitter ID and tap ✓ to continue. Users will be prompted to enter the ID again to verify accuracy, after which the transmitter will be connected.

START SENSOR SESSION (EVERY 10 DAYS)



1

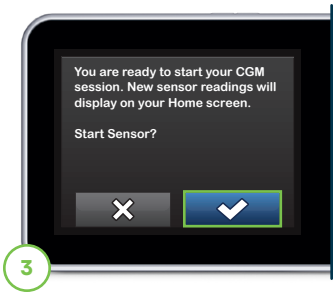
Locate the sensor code on the adhesive strip found on the bottom of the applicator. After removing the adhesive strip, insert the new sensor. Once the sensor is inserted make sure that the Dexcom transmitter is securely attached to the sensor.

2

In the **Options** menu on the t:slim X2 insulin pump, tap the **Down Arrow**, **My CGM**, **START SENSOR**, **CODE**, and then enter sensor code. Tap ✓ to continue.

⚑ **Note:** 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.

⚑ **Note:** To prevent calibration alerts, enter the sensor code prior to starting a sensor session.



3

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

4

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

⚑ **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.

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

Technical Support

Learn which CGM issues are specific to Dexcom or Tandem Diabetes Care and which company to contact.

User is experiencing issue(s) with . . .

- Dexcom G6 App (e.g., CGM data not displaying in the app)
- Insertion of Dexcom CGM component
- Dexcom sensor failure during two-hour warm-up
- Component site (e.g., discomfort, bleeding, adhesive)
- Damaged CGM component (e.g., broken wires, applicator)

→ **Dexcom Technical Support**
dexcom.com/support

- Loss of CGM connection on t:slim X2 insulin pump
- Invalid Transmitter ID (Alert 29) on t:slim X2 insulin pump

→ **Tandem Technical Support**
support.tandemdiabetes.com

Important Safety Information: RX ONLY. The t:slim X2 insulin pump, Basal-IQ technology, and Control-IQ technology are intended for single patient use. The t:slim X2 pump, 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 six years of age and greater. Basal-IQ technology: Basal-IQ technology is intended for use with a compatible integrated continuous glucose monitor (iCGM, sold separately) and ACE pump to automatically suspend delivery of insulin based on iCGM readings and predicted glucose values. The bolus calculator is indicated for the management of diabetes by people with diabetes by calculating an insulin dose or carbohydrate intake based on user entered data. Basal-IQ technology is intended for the management of diabetes mellitus in persons six years of age and greater. Control-IQ technology: Control-IQ technology is intended for use with a compatible 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 six 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 Basal-IQ technology are not indicated for use in pregnant women, people on dialysis, or critically ill patients. Do not use Control-IQ technology if using hydroxyurea. Users of the t:slim X2 pump, 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, and the CGM transmitter and sensor must be removed before MRI, CT, or diathermy treatment. Visit tandemdiabetes.com/safetyinfo for additional important safety information.

T:SLIM X2 INSULIN PUMP

Control-IQ Technology

MG/DL

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 technology	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

Control-IQ technology pump icons

Icon	Explanation
	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.
BOLUS Control-IQ: 2.8 u	Control-IQ technology is delivering an automatic correction bolus (or an automatic bolus).
zzz	The Sleep Activity is enabled.

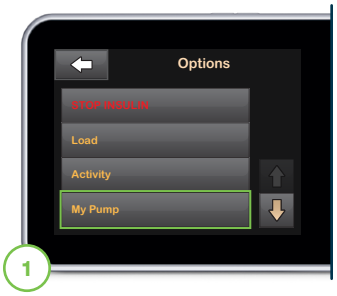
Icon	Explanation
B	Control-IQ technology is delivering the normal Personal Profile basal rate.
B	Control-IQ technology is increasing basal insulin delivery.
B	Control-IQ technology is decreasing basal insulin delivery.
0	Basal insulin delivery is stopped and a basal rate of 0 u/hr is active.
	Control-IQ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

Responsible Use of Control-IQ Technology
Even with advanced systems such as the t:slim X2 insulin pump with Control-IQ technology, you are still responsible for actively managing your 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 your accurate input of 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 your symptoms and treat according to your healthcare provider's recommendations.

* As measured by CGM. † If glucose values are predicted to be above 180 mg/dL, Control-IQ technology calculates a correction bolus using the Personal Profile settings and a target of 110 mg/dL and delivers 60% of that value. An Automatic Correction Bolus will not occur within 60 minutes of a bolus that has been delivered or cancelled.

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.

Turn Control-IQ technology on or off



1

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

2

Tap **Control-IQ**.

3

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

4

Next, enter the user's weight in pounds and average daily insulin use in units.

⚑ **Note:** Total Daily Insulin should be an estimate of total basal and bolus insulin the user requires in a 24-hour period.

⚑ **Note:** Existing t:slim X2 users can find their average Total Daily Insulin under Options, History, Pump History, Delivery Summary, and then 14-day Average.

5

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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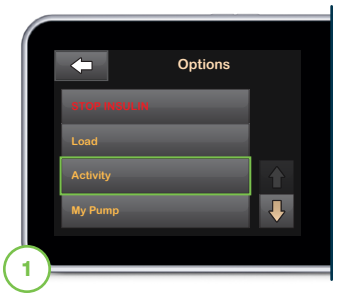
T:SLIM X2 INSULIN PUMP

Program Activities

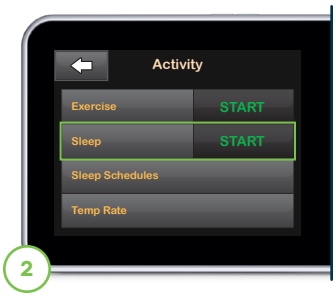
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 insulin pump, please refer to its user guide.

Enable Sleep Activity

Control-IQ technology offers optional settings for a Sleep Activity that will change the treatment values when enabled.



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

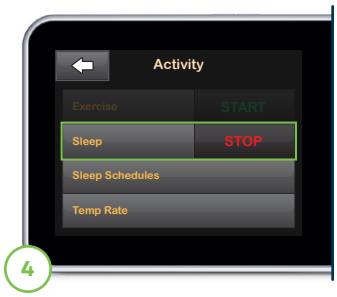


Tap **START** next to Sleep.

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

Sleep is now enabled.

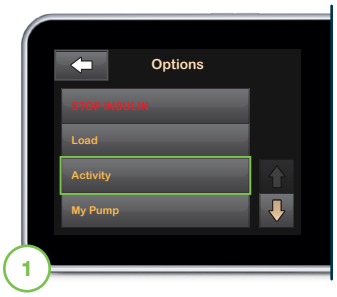
Note: To disable Sleep Activity, repeat the previous steps and tap STOP.



Tap **STOP** to turn Sleep off.

Using Sleep Schedules is recommended

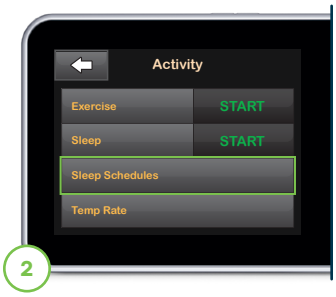
Within the Sleep Activity, users can set up two Sleep Schedules, which will automatically turn Sleep on and off at pre-programmed times. For example, one might be set up for weekdays and the other for weekends.



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

Note: No Automatic Correction Boluses will be delivered during Sleep.

Note: 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.



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

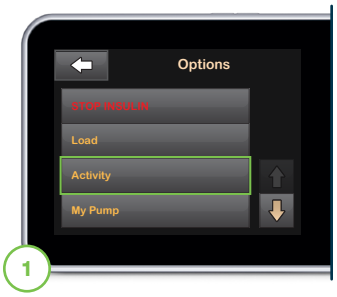
Note: Exercise and Sleep may not be enabled at the same time. If Exercise is active at the time a Sleep Schedule begins, the Sleep Schedule will not enable. However, once Exercise is disabled, the Sleep Schedule will start automatically.

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.

Tap ✓ to save the settings.

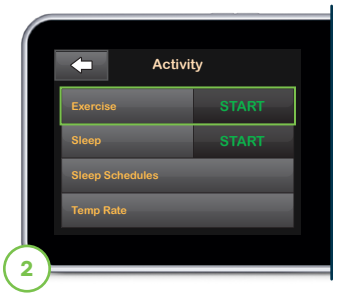
Enable Exercise Activity

Control-IQ technology offers optional settings for an Exercise Activity that will change the treatment values when enabled.



1

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

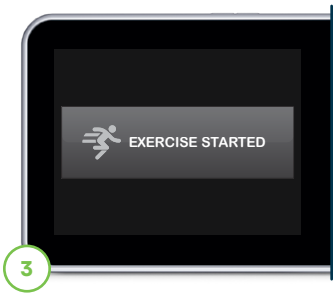


2

Tap **START** next to Exercise.

Note: Sleep and Exercise 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, 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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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. Do not use Control-IQ technology if using hydroxyurea. 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, and the CGM transmitter and sensor must be removed before MRI, CT, or diathermy treatment. Visit tandemdiabetes.com/safetyinfo for additional important safety information.

T:SLIM X2 INSULIN PUMP

Personal Profiles

MG/DL

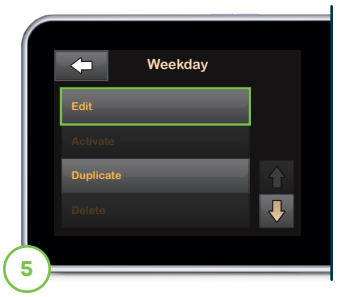
The instructions below are provided as a reference tool for caregivers who are already familiar with the use of an insulin pump and with insulin therapy in general. Not all screens are shown. For more detailed information on the operation of the t:slim X2 insulin pump, please refer to its user guide.

1 Tap **OPTIONS**.

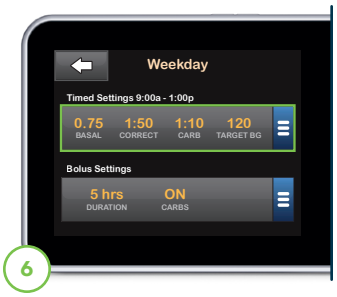
2 Tap **My Pump.**

3 Tap **Personal Profiles.**

4 Tap the Personal Profile name 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 ✓. When finished, tap ✓.

9 Confirm settings. Recent changes appear in orange. Tap ✓ to confirm.

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T:SLIM X2 INSULIN PUMP

Deliver an Extended Bolus

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 **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.

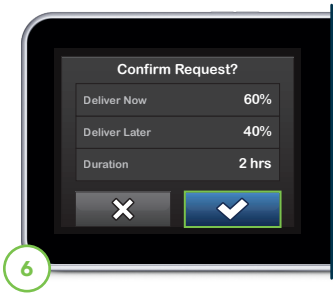
Note: If certain advanced features are being used, the current Dexcom G6 CGM reading may auto-populate to the bolus calculator. Please see the User Guide for more information.

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

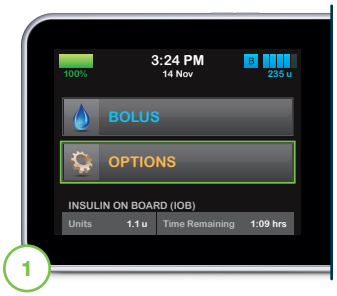
8

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

T:SLIM X2 INSULIN PUMP

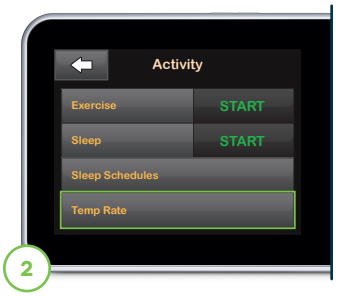
Set a Temp Basal Rate

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 **OPTIONS**.



2

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

3

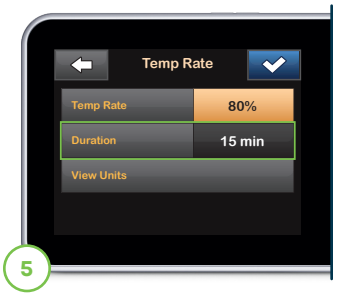
Tap **Temp Rate**.

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 ✓ to continue.

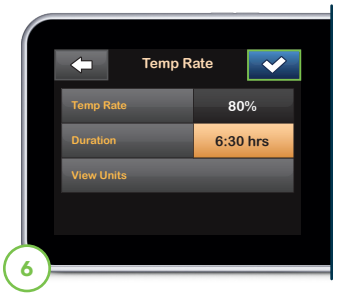
Note: Current rate is 100%. An increase is greater than 100% and a decrease is less than 100%.



5

Tap **Duration**. Using the on-screen keypad enter desired length of time for Temp Rate. Tap ✓ to continue.

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



6

Verify settings and tap ✓ to confirm. The TEMP RATE STARTED screen will appear to confirm the Temp Rate has started.

7

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.

8

To stop a Temp Rate at any time, tap **OPTIONS**, then **Activity**, then tap **"X"**. A confirmation screen will appear. Tap ✓ to confirm.

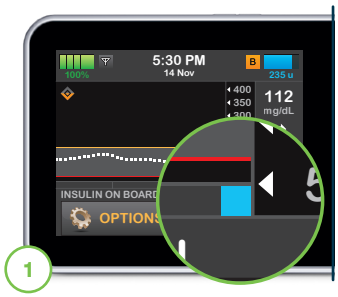
T:SLIM X2 INSULIN PUMP

New Features for Versions 6.6/7.6

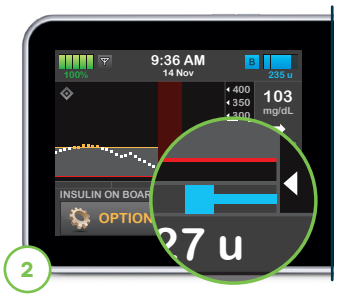
MG/DL

Bolus icons displayed on the CGM graph

After a bolus has been delivered, you will see a blue square icon on the bottom of your CGM graph. The icon will move along to the left as time passes, like the CGM graph timeline. There are three types of icons that you might see, depending on the type of bolus delivered.



Standard/Correction Bolus



Extended Bolus

Control-IQ Technology Automatic Correction Bolus

Control-IQ technology updates

If your t:slim X2 insulin pump features Basal-IQ technology, updates include those listed above and on the reverse side. If your t:slim X2 pump features Control-IQ technology, updates include those listed above, on the reverse side, as well as:

High Alert Adjustments

This software contains an adjustment to the Control-IQ technology high alert behavior, which will now annunciate a maximum of once every two hours as long as the same high alert state remains.

Switching Between Activities

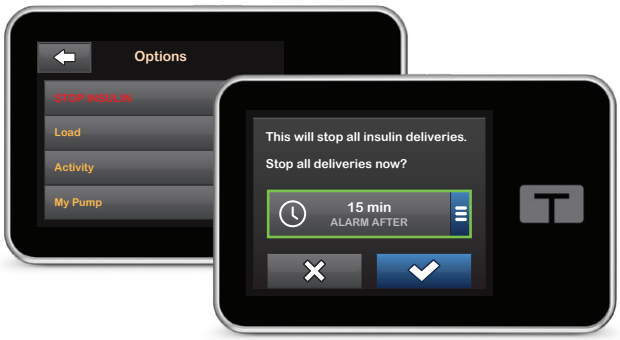
If Exercise Activity is manually turned off during a programmed Sleep Schedule time frame, the Sleep Activity will now start automatically.

Additional Bolus Reminder

An additional bolus reminder will appear when Control-IQ technology is turned on and a food bolus size greater than 25 units is calculated. Once the first 25 units has been delivered, the reminder will appear to allow for the additional remaining bolus to be delivered.

Custom alarm to resume insulin

You now have the ability to set up an alarm after you stop insulin manually to help you remember to resume insulin delivery. The default setting is 15 minutes after insulin is stopped, but you may change this to 30 minutes, 45 minutes, or 60 minutes. After the custom amount of time has passed, the pump will present a Resume Pump Alarm to remind you to manually resume insulin. You will have to resume insulin manually after acknowledging the alarm.



Updates to fill cannula selectable options

The preset fill cannula options are now 0.3 units, 0.5 units, and 0.7 units. The default setting is 0.3 units. You may still input a custom amount, if necessary.

Responsible Use of Basal-IQ and Control-IQ Technologies
Systems like the t:slim X2 insulin pump with Basal-IQ technology and the t:slim X2 insulin pump with Control-IQ technology are not substitutes for active diabetes management. For example, users still must bolus for meals. Basal-IQ technology is designed to predict and help prevent lows, but it cannot prevent all lows and Basal-IQ technology does not predict high glucose events. Control-IQ technology is designed to predict and help prevent low and high glucose events, but it cannot prevent all highs and lows, and Control-IQ requires that users accurately input information, such as meals and periods of sleep or exercise. The Basal-IQ and Control-IQ features rely on continuous CGM readings and will not be able to predict glucose levels and adjust insulin dosing if your CGM is not working properly or is unable to communicate with your pump. Be sure to always use your pump, cartridges, CGM, and infusion sets as instructed and check them regularly to make sure they are working properly. Always pay attention to your symptoms, actively monitor your glucose levels, and treat according to your healthcare provider's recommendations.

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