CADD®-Solis Pump

What is a CADD®-Solis pump?
The CADD®-Solis pump is a pump that runs on a battery to deliver medication(s) that lessens the feelings of pain and other symptoms you may have. The pump is portable and comes in a travel pouch that can be carried over your shoulder or around your waist. This makes it easy for you to move around with the pump.

You have been started on an infusion using the CADD®-Solis pump.
A member of your health care team has explained why you are using the pump. They have shown you what the pump looks like and how to use it.
This is a portable pump you can use as long as you need it. You do not have to stay in hospital. You may be cared for at home so you can go out as you are able.
1. **Status bar**: Colour-coded: green means that the pump is running, red means that the pump is stopped.

2. **Protocol title bar**: Shows the name of the drug(s) currently running.

3. **Infusion settings**: Shows the current rate of infusion and PCA dose.

4. **Reports**: View the reports screen by pressing the keypad button below (5).

5. **Keypad**.

6. **CADD medication cassette reservoir**: Keeps medication(s) safe and secure.

7. **Audible pump alarms**: Alerts using colours and sounds.

8. **Keypad lock status**: For added patient safety.

9. **Drug concentration**: In mg/mL, mcg/mL, or mL/hr.

10. **Clinical task menu**: For use by professionals.

11. **Cassette latch**: For easy attachment of the CADD® cassette.

12. **Scroll keys**.

13. **PCA dose button**.
How does my CADD®-Solis pump work?
Your pump connects to a catheter (small tube) that is placed into the subcutaneous tissue (under the skin), or into the intrathecal space (space between the spinal cord and the protective sheath around the spinal cord). The pump will give you medication(s) at a set rate over several hours or weeks.
In some cases, if your health care provider feels it is right for you, it can also let you give yourself “breakthrough” doses of medication (extra doses of medicine to help control pain).

Who will get my medication(s) ready for my CADD®-Solis pump?
Your health care team will talk with you about the best way for you to use your pump. There are 2 ways that medication(s) can be given through your pump:
1. The pharmacy will get your medication(s) ready in a cassette to attach to the bottom of your pump.
2. A Registered Nurse (RN) will get your medication(s) ready and add it to a small intravenous (IV) infusion bag.
How do I know my pump is working?
Your pump gives you medication(s) when the green light on the left-hand side of the screen is flashing and the bar at the top of the screen is green and reads “RUNNING.” Your pump is not running when the orange light to the left of the screen is flashing and the bar at the top of the screen is red and reads “STOPPED.”

How do I take care of my CADD®-Solis pump?
Your CADD®-Solis pump is not waterproof, so do not get it wet. When bathing, be careful to keep your pump and the dressing over your catheter site dry. You may want to put your pump on a chair when bathing, or put it in a plastic bag. If you accidentally drop your pump in water, take it out right away, dry it off with a towel, and call your health care team for instructions.
When and how do I change the batteries?

If a message on the screen says “Battery low, replace battery,” replace the batteries as soon as you can.

**To change the batteries, follow these steps:**

1. Press the “Stop/Start” button.
2. The screen will show “Stop Pump?” Press “Yes.”
3. Take out the 4 used batteries from the top of the pump.
4. Put in 4 new AA batteries. Do not use rechargeable NiCAD or carbon zinc (“heavy duty”) batteries as the pump will not work properly.
5. Press the power button (on the side of the pump) to turn on the pump.
6. The screen will show “Do you want to start a new patient?” Press “No.”
7. Press “Stop/Start” to start the pump.
8. The screen will show “Start Pump?” Press “Yes.”

Note: If you do not change the batteries when they are low, the alarm will go off and the orange light will no longer flash. Change the batteries as described above.
How do I give myself a Patient-Controlled Analgesia (PCA) pain medicine dose?

There are 2 ways to do this:

1. When the PCA remote dose cord is in use:
   • Press the blue button on the PCA dose cord. If a dose is ready, it will be given. You will hear a “swirling” noise while the dose is being given. The green bar at the top of the home screen will read “PCA Dosing” while the dose is being given.
   • If the blue button on the PCA dose cord is pressed during the lockout time, a PCA dose will not be given. The message on the pump will read “PCA dose not available. Currently locked out.”

2. When the PCA dose key is in use:
   • Press the blue PCA dose button on the keypad. You will hear a “swirling” noise while the dose is being given. The green bar at the top of the home screen will read “PCA Dosing” while the dose is being given.
   • If the blue PCA button on the pump is pressed during the lockout time, a PCA dose will not be given. The message on the pump will read “PCA dose not available. Currently locked out.”
A dose will not be given during the lockout time. It doesn’t matter how many times you try. This is for your safety, so you can’t accidentally take too much medication. If the PCA dose cord is connected, a green light will flash to let you know that a dose is ready if needed.

What are your questions?
Please ask. We are here to help you.

Questions:
Pump alarms

The pump has several alarms. Many of them give you the option to either acknowledge or silence the alarm. A member of your health care team will show you what to do for these alarms.

Acknowledging the alarm will clear it from the screen. Silencing the alarm will keep it on the screen. The alarm will silence for 2 minutes and then sound again. This will continue until the alarm is acknowledged or resolved.

**High priority alarm:** This alarm will stop the pump if it is running and the screen will turn red. The alarm must be acknowledged by pressing a key on the pump (see #5 on diagram on page 2). The pump will then need to be started again (using the “Stop/Start” (red/green) button). The pump will start as long as the problem that triggered the alarm is fixed (for example, if the batteries needed to be replaced).

**Medium priority alarm:** This alarm will not stop the pump if it is running. The screen on the pump will turn orange until it is acknowledged. For example, when unplugging the PCA remote dose cord, an alarm will sound which must be acknowledged by pressing the top left-hand key (see #5 on diagram on page 2). Once this is done, the pump will display the home screen.
Low priority alarm: This alarm will not stop the pump if it is running. The screen will turn blue. The alarm will automatically clear after 5 seconds if it is not acknowledged, as long as the problem that triggered the alarm is fixed. For example, a low battery or disconnecting the AC adaptor from the pump would trigger this alarm.

Managing “air in line”
The pump can tell if air collects inside the pump. Sometimes very small air bubbles collect in the tubing and trigger an alarm. If this happens, a high priority alarm will sound. The pump will stop and the screen will turn red and read “Air in Line Detected.” If this happens, follow these steps:
1. Press “Acknowledge.”
2. The screen will read “Prime Tubing.”
3. Press “No.”
4. The screen will read “Start Pump.”
5. Press “Yes.”
6. The pump will either restart (the problem is taken care of) or the screen will read “Cannot start pump with air in line.” If you see this message, press “Acknowledge” and call a member of your health care team for further help.
How do I know if there is a problem with the medicine(s) being used?
Please talk with a member of your health care team about common side effects of the medicine(s) you are taking. Please tell a member of your health care team about any side effects you have.

Call 911 right away if you have trouble breathing or a medical emergency.

Questions?
If you have any questions or concerns, or want to learn more about your CADD®-Solis pump, please talk to the following member(s) of your health care team:

Name: __________________________________________
Phone: __________________________________________

Name: __________________________________________
Phone: __________________________________________
Hospice Palliative Care Program
CADD®-Solis Pump Caregiver(s) Teaching Checklist

☑ Before discharge home and when starting with a patient in the community with a CSCI (Continuous Subcutaneous Infusion) via a CADD®-Solis pump, the patient/client must have a caregiver who is able to manage the pump.

Assessment – Caregiver(s)
• Must be available 24/7 to monitor the pump.
• Must have the manual dexterity (be able to use their hands) to operate the pump.
• Must be able to learn how to troubleshoot the pump and support basic functions to keep it running (e.g., change batteries, change medication infusion from one subcutaneous (under the skin) site to another, assess subcutaneous site(s), etc.).
• Must have the visual acuity (be able to see well enough) to see signs of cloudiness or a change in colour of the medication solution.

Assessment – Patient:
• Willingness to try subcutaneous infusion via the CADD®-Solis pump.
• Must be assessed for risk of misusing the medications given via the pump, or of anyone in the home misusing the medications.
<table>
<thead>
<tr>
<th>Skill</th>
<th>Education by</th>
<th>Date</th>
<th>Changing infusion from one subcutaneous site to another</th>
<th>Subcutaneous site(s) assessment (redness, leaking, infusion not infusing, etc.)</th>
<th>Troubleshoot problems with pump and have a backup plan</th>
<th>Assessment of stability/ compatibility of medications (fluid in tubing remains clear and colourless)</th>
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<tbody>
<tr>
<td>Changing Batteries</td>
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