

# Infusion pump home use

Information for cancerology clientele



CISSS de la Montérégie-Centre

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## 1. INTRODUCTION

Your physician has prescribed a medication that will be administered continuously thanks to a portable pump. This pump will be installed to your catheter with tubing. You will be able to receive your treatment at home.

This will allow you to be actively involved in your care. You must monitor and possibly administer some procedures such as changing the batteries or managing the alarms.

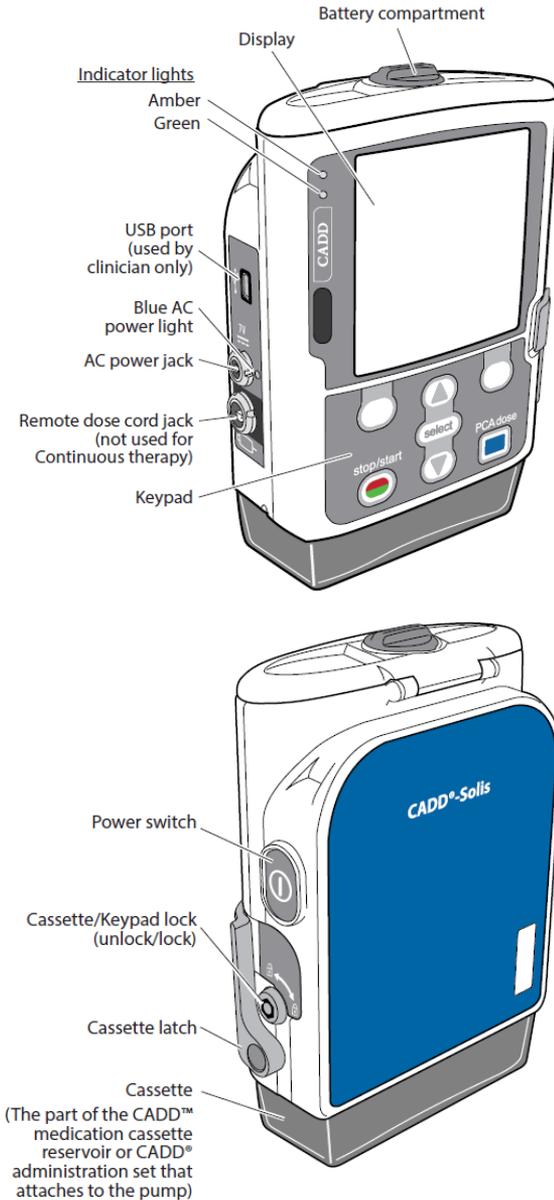
A nurse will explain each procedure for using the pump based on this guide. Do not hesitate to ask questions.

A pharmacist will program the pump for you. The pump will deliver medication for a precise period of time and will be locked (no possibility of changing it). The infusion bag will contain the dose of medication required for the duration of treatment. You must see the nurse again at a scheduled time to remove the pump.

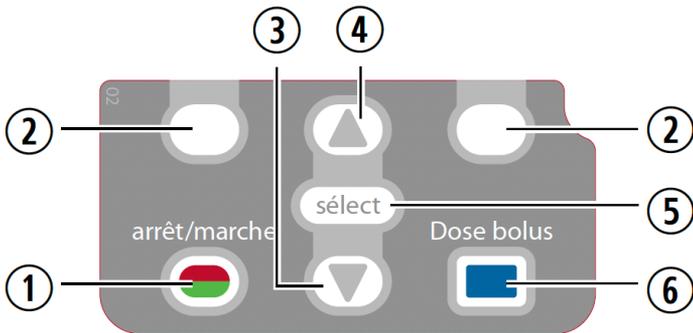
Once the information is entered and the pump is programmed, you can leave the hospital with the pump and go about your daily activities. Feel free to use a waist fanny pack to carry the pump and tubing.

## 2. PUMP DETAILS

### 2.1 Pump



## 2.2 Keypad



①	Stop/Start	Starts and stops pump delivery.
②	Navigation keys	Let you answer a question on the pump display screen and navigate through some of the pump screens.
③	Arrow ▼	Lets you scroll down menus or decrease values.
④	Arrow ▲	Lets you scroll up menus or increase values.
⑤	Select	Used to select a menu item.
⑥	PCA dose	Not used in your treatment.

## 2.3 Lights



**Green light (flashing) = No alarm**

Pump is working and delivering medication



**Orange light = Pump has stopped/alarm in progress**

Battery is low or medication is low

If the orange light is on continuously, the pump cannot function and you must call the emergency number.

**Remark:** If two lights are flashing at the same time, the pump is working, but will need attention soon (for example, weak battery or medication is low).

**WARNING :** When the pump is off, the medication is not delivering, the alarms are not detected or indicated, the screen is blank, the keypad does not respond and the indicator lights are not on.

## 2.4 Sleep mode

The pump screen goes into sleep mode after a few seconds in order to prolong the life of the batteries. You simply need to press on one of the soft keys located in the middle of the keypad to turn the screen back on.

## 2.5 Air bubbles

For your information, air bubbles in the tubing are eliminated by vents located in the filter of the tubular-cassette.

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### 3. HANDLING THE PUMP WITH CARE

- Handle pump with care around children and animals.
- Avoid contact sports or rough play.
- Do not use the pump in temperatures below 2 °C or above 40 °C and in high humidity to prevent damaging the electronic circuitry. Wear the pump under your coat when going outside in the winter.
- When taking a shower keep the following dry (cover with waterproof plastic wrap):
  - ✓ the pump;
  - ✓ the tubing;
  - ✓ the dressing;
  - ✓ the catheter site.
- Do not put pump in water or cleaning fluid. The cancer team will clean the pump between each use.
- If the pump falls or is knocked, the opening to the battery compartment could be damaged. If this should happen, please contact the nurse at the emergency number so she/he can verify that the pump is safe.
- Some radiology procedures, magnetic resonance imaging (MRI), electronic devices such as heart monitors, exposure to radiation and radiotherapy can damage the functioning of the pump. Ensure that the treating practitioner knows that you are undergoing treatment with an infusion pump and checks to see if the pump should be removed temporarily.
- If you have to be hospitalized, the pump must not be used in a hospital setting. It must be returned immediately to the Centre intégré de cancérologie de la Montérégie. The personnel in your hospital unit will look after administering your medication and maintaining the schedule that was established for the pump by the hospital.

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## 4. MONITORING

It is important to check on the following, three (3) times a day (at breakfast, lunch, supper):

- **Catheter insertion site**  
Check if there is discomfort or pain and for presence of redness, swelling, warmth.
- **Dressing**  
Check to see if dressing is dry and adhering well.
- **Tubing**  
Check the tubing for medication leaks.

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## 5. CHANGING THE BATTERIES

At the extreme top right of the screen on your pump is a battery charge level indicator. The indicator is **GREEN** when new batteries are installed.

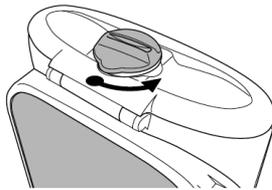
As the batteries weaken, the level of the charge indicator changes automatically. You will have to change the batteries when the battery charge level indicator becomes **ORANGE**, because the charge is below 25%.

It is recommended that batteries be changed between two infusions to avoid having to change them during an infusion, in other words when you receive a dose of medication. The batteries have a life span of approximately 6 to 7 days depending on use.

Four AA 1.5 V new, alkaline, non-rechargeable batteries must be used when replacement is necessary. The cancer care team will provide you with batteries.

## Procedure for changing batteries:

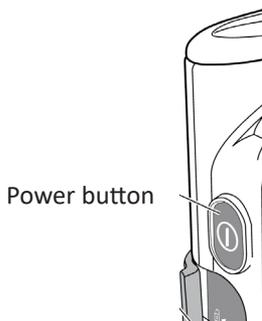
- Press the **stop/start** key on the pump keypad.
- The following message will appear on the screen: **Stop pump?**
- Select **Yes** by pressing the soft key to the right on the keypad. A red indicator appears at the top of the screen written **Stopped**.
- Turn the pump off by pressing the power switch. This button is located on the right hand side of the pump.
- The following message will appear: **Turn off?** Select **Yes** by pressing the key on the right side of the keypad.
- Open the battery compartment located at the top of the pump. Turn the knob on the battery door counter **clockwise**.



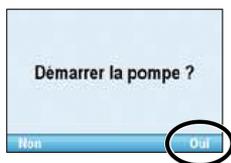
- Remove the old batteries and dispose of them in an environmentally responsible way.
- Hold the pump at an angle and insert the AA batteries. Make sure to match the + and – signs on the new batteries with those on the inside of the battery compartment cover.
- Close the compartment securely and turn the Knob of the battery door clockwise.



- Turn the pump back on by pressing firmly on the **power button** on the right hand side of the pump.



- The screen will come on, you will briefly hear a beeping sound. To restart the infusion, press the **stop/start** key located on the keypad.
- The following message will appear: **Start pump?**
- Select **Yes** by pressing the soft key on the lower right of the keypad.



- A green box will appear with the following inscription: **Infusion is starting now.**

**Remark:** If the batteries are loaded upside down, the pump will not turn on. Check the batteries making sure to match the + and - markings on the batteries to the pump.

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## 6. ALARMS

### 6.1 Alarm messages

The pump can transmit multiple alarms which have different sounds. They can be continuous or intermittent. You can «acknowledge» most of these alarms or «silence» them. It is important to take note and inform the cancer care team about them.

- **Silence:** The alarm stays on the screen but is silenced for 2 minutes, the time to identify the source of the problem. To use it, simply press the soft key located on the keypad right. The alarm will remain on the screen until the problem is acknowledged or resolved.
- **Acknowledge:** Clears the alarm from the screen and, consequently, turns off the sound. To acknowledge, press the soft key on the left side of the keypad. If the problem is not resolved, the alarm will start up again in a few minutes.

An alarm can be high priority [**RED** screen], medium [**ORANGE** screen] or low [**BLUE** screen]. An alarm message appears in a box on the screen.



## 6.2 Types of alarm

### System fault alarm

Indicates that an unrecoverable error has occurred, such as a hardware or software fault. The alarm is two-toned. An error code appears on the screen: please take note of it and turn off the pump by removing the batteries. Contact the emergency number immediately to replace the defective pump.

### High priority alarm

Pauses or stops the pump. This alarm will continue until it is either acknowledged by pressing a key or until the problem is resolved. If put in silence mode, the alarm will start again after 2 minutes.

### Medium priority

This alarm does not stop the pump; infusion continues. The alarm will persist until it is either acknowledged by pressing a key or until the alarm condition is resolved. If put in silence mode, the alarm will start again after 2 minutes.

### Low priority

Infusion continues. The alarm will persist until it is acknowledged by pressing a key or until the alarm condition is resolved.

### 6.3 What to do in case of alarm

- When an alarm goes off, select **Silence** to place it in mute (soft key located screen right).
- Silence mode lasts about 2 minutes, but does not resolve the problem.
- If help screens are available, **Help** will appear on screen right. To view these screens, press the soft key on the right hand of the screen.
- Follow the instructions on the help screen. To scroll through all the available help screens, press **Next** (soft key, screen right).
- To scroll through all the help screens again, press **Retry Help** (soft key, screen right).
- Press **Acknowledge** (soft key, screen left) at any time to exit the **Help menu**.
- If you find the source of the problem and can fix it, the alarm will turn itself off.
- If in doubt, call the emergency number.

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## 7. MEDICATION LEAKS

The cancer care team will provide you with a medication spill kit. You must carry it with you as you move around.

If the tubing detaches from the bag or catheter and medication leaks:

- Close the clamp on your catheter.
- Stop the pump.
- Open your spill kit and follow the instructions.
- Come to the hospital emergency as soon as possible.

In order for the medication to deliver, the pump should never be put in stop mode except when there is a medication leak.

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## 8. EMERGENCY NUMBER

If, at any time, you have a question or a problem, contact the cancer care team. Please do not call the pump manufacturer.

- Between 8 a.m. and 4 p.m., Monday to Friday, contact a nurse at **450 466-5000, ext. 7391**.
- Evenings, nights and weekends and holidays, contact the Info-Onco line at **1 888 660-6001**.







## References

**The current guide is an adaptation of the guide « Pompe à perfusion à domicile – Renseignements à la clientèle » du CIUSSS de l'Est-de-l'Île-de-Montréal (2018).**

Smiths Medical (2010, 2011). Guide d'information du patient. CADD-Solis VIP: Pompe à perfusion ambulatoire. Modèle 2120 (40-5906-02C).

Inspired by CHU Sainte-Justine (2004). Programme d'enseignement et de soins antibiothérapie intraveineuse à domicile. Pompe CADD-Solis VIP. Pompe à perfusion ambulatoire. Accessible on-line.

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