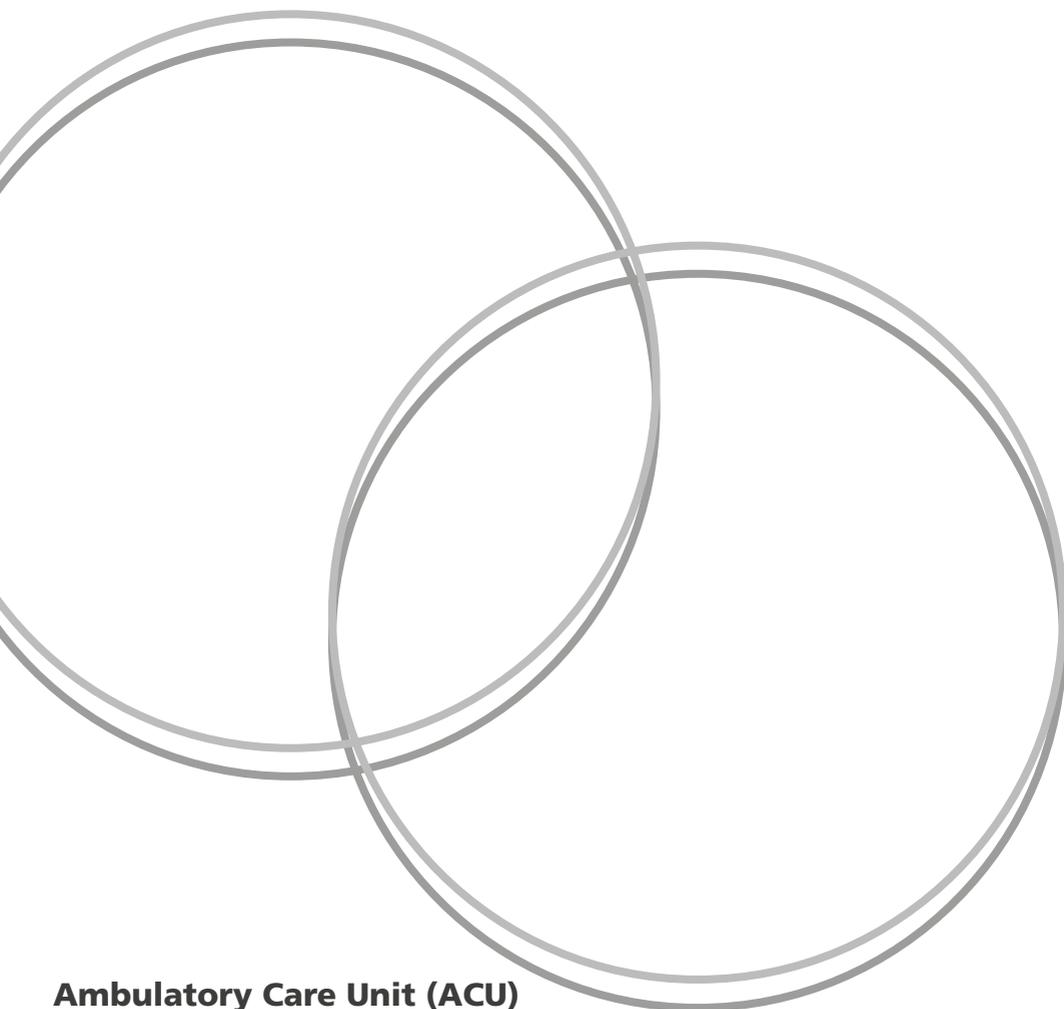




Oxford University Hospitals  
NHS Foundation Trust

# Going Home with a CADD Pump

Information for patients



Ambulatory Care Unit (ACU)

This leaflet will tell you how to use your CADD pump. CADD stands for Computerised Ambulatory Delivery Device.

The CADD pump means you can have your chemotherapy safely at home or when staying in the flat at the hospital. It can deliver continuous chemotherapy, or chemotherapy that is given at a particular time. You can also have other medicines or fluids through the pump.

Your chemotherapy nurse will explain how to use the pump before you go home. They will make sure that you understand how it works. You should feel confident about using the pump before you agree to having your chemotherapy in this way. Your partner or carer should also understand how the pump works.



Backpack showing medication bag and CADD pump

## How does the CADD pump work?

The pump will be attached to a cassette or infusion bag, which will contain the chemotherapy, medication or fluid. This will all be placed into a bag or pouch. It can be worn on your back, over your shoulder or around your waist, depending on the weight of the liquid in the bag. Please ask if you have any questions about how to wear the bag or pouch.

Your chemotherapy nurse will program the pump to deliver the chemotherapy, medication or fluid at an exact dose per hour and at exact times, as your doctor has prescribed.

The pump will have a fully charged battery before you take it home. The key pad will be locked, so that the programming cannot be changed by accident.



CADD pump

On the first day of your treatment you will be given some appointment times.

**It is very important that you return to the Ambulatory Care Unit for these appointments.** We need to check that the pump is OK. We may need to remove the pump, change the bags or replace the batteries.

## **If there are any problems with your pump, please contact the Ambulatory Care Unit.**

Telephone: 01865 226 513

8.00am to 6.00pm, every day of the week.

If you are unable to get through, or you need help outside of hours, please telephone Cancer and Haematology Triage (see the end of the leaflet for contact details). You may need to return to the hospital to have the pump checked or replaced.

**Do not disconnect the tubing yourself, as this may cause the chemotherapy to spill.**

## **Using the CADD pump**

When you start using the CADD pump you will need to make some minor adjustments to your daily activities:

- When you bathe, put the pump on a stool or chair next to the bath or shower. **It should not get wet, as water can damage the pump.**
- When you sleep, the pump can be put on a chair next to your bed. You must make sure the pump and cassette/bag holding the fluid is **always upright**. This will allow the infusion to run without interruptions. If the bag is not left upright this can cause an air bubble in the pump or a kink in the line, which will prevent the pump from working.
- Do not play any contact sports. You might hurt yourself, detach the pump or damage it.
- Protect the pump so it is not dropped or hit. The pump may be damaged if hit with a hard object.
- If you have animals at home or contact with small children, keep the pump out of reach at all times. You must also be careful with your central line, to make sure it does not get pulled or damaged.
- If someone in your home is pregnant, they should not come into contact with any spillage of chemotherapy. If they do come into contact with the chemotherapy, **contact us immediately** using the phone numbers on page 15 of this leaflet. Run the area of skin under water for at least 10 minutes and run the area of skin under water for at least 10 minutes.

## **How will I know the CADD pump is working?**

- 1.** If your chemotherapy or fluid has been programmed to run continuously, you should hear an intermittent low 'whirring' sound. This means it is working correctly.
- 2.** If your chemotherapy or fluid has been programmed to start later in the day, for example at 9 pm. in the evening, then you will not hear this 'whirring' sound until 9 pm. It has a clock built in, so it knows what time it is, and it will start exactly on time.
- 3.** You should be able to see the amount of liquid in the bag or cassette gradually going down. In addition to this visual check, the top left hand corner of the CADD pump screen displays the volume of fluid left to be delivered. If you have an intermittent infusion this number will only go down at the time of your infusion.
- 4.** Also on the top of the CADD pump screen there should be a green message that says 'Running'. If this is red and says 'Stopped' then the pump is not running.
- 5.** If you are having an intermittent infusion, the pump will display a countdown telling you when your infusion will start, e.g. 'Delayed Start – Infusion starts in 6 hours 30 minutes'.

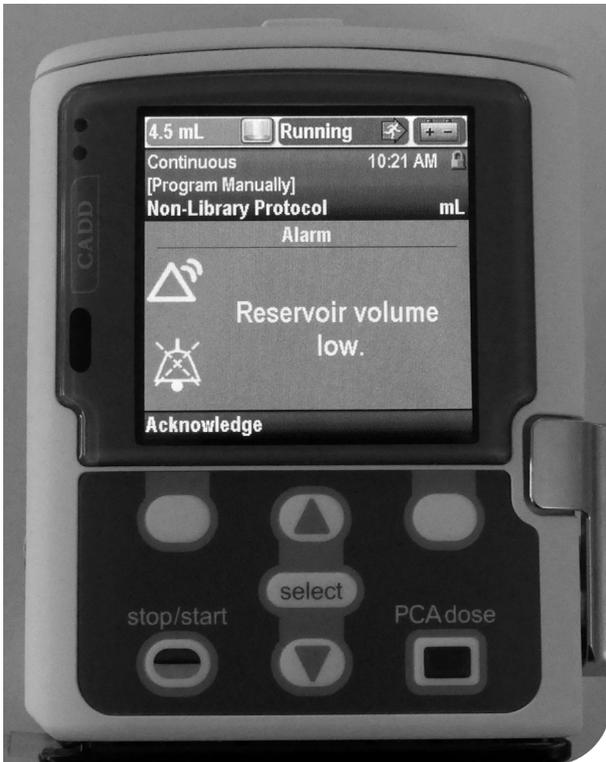
If you are worried that the CADD pump is damaged and may not be working, please contact us using the phone numbers provided on page 15 of this leaflet.

# CADD Pump Alerts

If your CADD pump is sounding an alarm, please look at the CADD pump display screen – this will show you what the problem is. There are two alarms that we expect to happen:

## Reservoir volume low

This is the pump notifying you that your infusion is almost finished. Please press the 'acknowledge' button and the pump will continue to deliver the last of your chemotherapy/fluid.



CADD pump with example alert

## Reservoir volume is zero

This is the pump alarming to advise you that your chemotherapy or fluids have completed their infusion. You should now turn the pump off completely using the power switch on the right-hand side of the pump. It will ask 'Power down?' and you should select 'Yes'.



CADD pump infusion completed

Sometimes other messages or alarms can occur. The pump will provide step-by-step instructions which can be easily followed. The most common alarms that can occur are:

### **Downstream occlusion. Clear occlusion between pump and patient**

If this message appears on your pump, please press the 'silence' button, then the 'help' button and follow the instructions. It might ask you to adjust the position of your arm, check that there are no kinks in the line and that all the clamps are open. If you fix the problem, the pump should automatically start running. If it does not automatically start running please press the 'stop/start' button. It should start running after that.



CADD pump downstream occlusion alert

## Upstream occlusion. Clear occlusion between pump and reservoir.

If this message appears on your pump, please press the 'silence' button then the 'help' button and follow the instructions. Please be aware, the pump will ask you to 'fully insert spike' into the chemotherapy bag (displayed below). For safety reasons **DO NOT follow this instruction**. It puts you at risk of a chemotherapy spillage. Press 'Next' to move on to the next instruction.



CADD pump upstream occlusion alert

## Air in line detected

If this occurs then please immediately clamp the line. **DO NOT** follow the instruction to prime the tubing. Please call the Ambulatory Care Unit (during the day) or the Cancer and Haematology Triage (out of hours) and tell them what has happened. You will need to return to the hospital so that the problem can be fixed by a nurse. Air in the line cannot be resolved at home or in the ambulatory accommodation and should be assessed by a trained Nurse.



CADD pump air in-line detected alert

If air in the line is detected, close all clamps turn the pump off and contact Cancer and Haematology Triage. The nurse that you speak to may be able to help you over the phone. However, please be aware that you may need to come back to the hospital.

Please do not disconnect yourself from the chemotherapy/fluid line.

If you are unsure about any alarms or alerts then please contact the Cancer and Haematology Triage as soon as possible.

Don't worry about these potential problems. Your chemotherapy nurse will show you what to do with all of these situations before you go home with the pump.

## What else do I need to do?

You must check your central line site (PICC line or Hickman line) regularly and report any problems to Cancer and Haematology Triage.

### **Problems may include:**

- lifting of the waterproof dressing
- visible leaking of fluid and/or swelling under the dressing
- any leakage from the tubing
- signs of infection at the site, including redness, pain, heat, or swelling.

You must call 999 if you develop any chest pain, difficulty breathing (e.g. wheezing, shortness of breath) or any swelling of your throat or face. These symptoms may mean you are having a very serious allergic reaction.

# What should I do if my chemotherapy spills or leaks?

It is possible to accidentally spill chemotherapy if the connection between the pump and your line comes loose or if the line becomes damaged whilst treatment is running.

You will be given a spillage kit by the hospital, including instructions for how to use it and a patient information leaflet about 'Dealing with a chemotherapy spillage at home'. Keep the kit and the information nearby when you have your chemotherapy pump attached and make sure that your carer or family members also know how to use it.

Contents of spillage kit



## **The main instructions to follow are:**

- Restrict the area immediately.
- Keep all people out of the spillage area (especially children and pregnant women). Allow only the minimum number of people required in the area to clear the spillage up.

## **If your chemotherapy spills you must:**

1. Turn off the CADD pump. Press the power button at the right-hand side of the pump. It will ask you 'Stop pump?', please select 'Yes'. It will then ask you 'Power down?', please select 'Yes'.
2. Please stay connected to your CADD pump and chemotherapy line.
3. Open the spillage kit (away from the spillage) and put on disposable gloves and personal protective equipment.
4. Soak up the spill using the bio-wipe bag, absorbent pad and towels provided. Allow to dry.
5. Clean the area with water only and leave to dry again.
6. Remove the gloves, blue protective gown and face mask and place these into the yellow bag provided. Put new gloves on and put the pump (and blue bag, if it is in one) into the yellow bag. Remove the gloves and put into the yellow bag. Tie the top of the bag loosely.
7. Return to the hospital with the yellow bag, when it is safe to do so. Support the weight of the bag. Someone should drive you to the hospital to prevent further spillage.
8. Call Cancer and Haematology Triage to tell them about the spillage and that you are on your way.

Chemotherapy that spills onto skin may cause irritation. If this happens, immediately hold the affected area under cool water for 10 minutes. Do not scrub the skin; unbroken skin provides protection. If chemotherapy splashes in to eyes, immediately rinse them with running water. Keep the water running over the eyes for 10 to 15 minutes.

Follow the full instructions in the '**Dealing with a chemotherapy spillage at home**' leaflet.

# How to contact us

## **Cancer and Haematology Triage**

Telephone: 01865 572 192  
(24 hours, 7 days a week)

## **Ambulatory Care Unit / Acute Chemotherapy Team**

Telephone: 01865 226 513  
(8.00am to 6.00pm, 7 days a week)  
Email: [acute.chemotherapyteam@oxnet.nhs.uk](mailto:acute.chemotherapyteam@oxnet.nhs.uk)

## **Oncology Ward**

Telephone: 01865 235 012  
(24 hours, 7 days a week)

## **Haematology Ward**

Telephone: 01865 235 048/9  
(24 hours, 7 days a week)

## Further information

If you would like an interpreter, please speak to the department where you are being seen.

Please also tell them if you would like this information in another format, such as:

- Easy Read
- large print
- braille
- audio
- electronic
- another language.

We have tried to make the information in this leaflet meet your needs. If it does not meet your individual needs or situation, please speak to your healthcare team. They are happy to help.

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Oxford University Hospitals NHS Foundation Trust  
[www.ouh.nhs.uk/information](http://www.ouh.nhs.uk/information)



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