

Administration of IV Flolan (Epoprostenol) CADD pump and Hickman Line

STEP BY STEP GUIDE



This guide has been designed to accompany the **training video** produced by the PHA UK to help you administer your IV Flolan (Epoprostenol) CADD pump and Hickman line.



Please remember that these resources are not designed to replace the training from your specialist centre. If you have any questions or concerns, please contact them as soon as possible.

Equipment Required

1

CADD pump

2

**Flolan
(Epoprostenol)
and solvent**

3

50ml Cassette

4

**50ml luer
lock syringe**

5

Extension set

6

Sterile needle

7

Sterile gloves

8

Alcohol wipes x 6

9

Hand sanitizer

10

**Disinfectant
wipes**

11

Sharps bin

12

Carry pouch

Preparing Syringe - Stage 1

1

Clean hands with soap and water

2

Switch on check battery level

3

Select “programme” Check “Reservoir Volume” is 50ml, if not, press “select” and enter code 201. Change reservoir volume to 50ml using arrow keys, press “save” then check continuous rate is correct, then switch off pump

4

Clean the work surface with disinfectant wipes

5

Flick off cap from each vial of Flolan and solvent without touching the centre and cover each top with a separate alcohol wipe prior to opening sterile gloves

6

Clean hands with hand sanitizer

7

Open a pair of sterile gloves

CONTINUED ►

Preparing Syringe - *Stage 2*

8 *Open the syringe, needle, extension set and cassette and place on the inside of the sterile paper*



9 *Clean hands with hand sanitizer*



10 *Put on the sterile gloves and loosen the plunger of the syringe*

11 *Remove red bung from packaging and throw away*



12 *Attach needle to end of syringe and pull plunger back to 50mls*



13 *Remove needle cover and insert needle into solvent and then withdraw all 50mls of the solution by pushing in a small amount of air at a time and allowing the solution to flow down into the syringe*



14 *Once all of the solution has been withdrawn insert needle into the Flolan vial and insert 5mls of solvent and shake gently to dissolve powder*

15 *Withdraw all contents from Flolan vial and tilt the syringe up and down gently to mix the solution*



16 *Repeat for each additional Flolan vial if required*



17 *Once mixed, remove needle and push out remaining air from syringe and then place syringe on sterile paper*



18 *Open two alcohol wipes. Use one to clean gloves and the other to clean the end of the syringe*

Cassette Preparation

1

Remove white cap from cassette



2

Attach syringe to cassette and insert solution slowly with cassette in upright position ensuring dark blue clip on cassette is at top of the up righted cassette



3

To remove any air bubbles, push in air with syringe and roll cassette around slowly to gather all bubbles in one place



4

Once all bubbles are collected in one area, tilt cassette with the dark blue clip pointing upwards

5

Withdraw air from cassette and then push in any remaining solution whilst syringe pointing downwards



6

Once filled, release syringe plunger and clamp cassette and then remove syringe



7

Remove light blue cap from extension set and attach to cassette



8

Remove dark blue clip from cassette by pulling upwards

Setting up Pump

1

Switch on
CADD pump



2

Attach the cassette to the CADD pump by pulling down the metal lever, hooking the cassette feet onto the metal rungs gently pushing down on a hard surface. Then push the lever back up into place



3

Select “**Yes**” to prime the tubing and enter code 201. Unclamp cassette. Hold the air filter in the upright position and select “**Prime**”. Prime line until solution appears at the end of the extension set and then press “**Stop Priming**”

4

When asked if you would like to continue priming, select “**No**”



5

Select “**Yes**” to starting the pump as you need to check the rate



6

Check that all 3 areas at the top of the screen are coloured green and that the pump is running

Attaching to Hickman Line

1

Open two alcohol wipes and use one to clean gloves



2

Clamp Hickman line and disconnect the extension set of the infusion that is already attached



3

Use the remaining alcohol wipe to clean the end of the Hickman line smart site



4

Attach the extension set of the new infusion to the Hickman line bung

5

Unclamp Hickman line



6

Lock pump with key



7

Place CADD pump in carry pouch

Disposing of old Flolan Cassette

1

Press “**Stop/Start**” on old pump and select “**Yes**” to confirm



2

Unlock pump with key and pull down lever to remove old cassette



3

Press the **ON/OFF** switch and select “**Yes**” to power down

4

Dispose of cassette, extension in burns bin and remaining equipment safely



5

Charge if needed

Pump Review

If the rate is changed the pump will ask you to review this prior to starting the pump. When asked select “**Review**” confirm both new “**Continuous Rate**” and “**Reservoir Volume**” by pressing the “**Accept Value**” ensuring a tick appears next to each value , then click “**Next**” and select “**Yes**” to start the pump and resume with Step Four.

Changing Hickman line dressings twice weekly

Equipment required

1

Disinfectant wipes



2

Gauze swabs



3

x2 IV 3000 dressings

4

x2 pairs of
sterile gloves



5

Wipes



6

Hand sanitizer



7

Chlorhexidine
solution

Procedure for changing Hickman line dressings - *Stage 1*

1

Collect equipment

2

Clean hands with soap and water

3

Clean the work surface with disinfectant wipes

4

Clean hands with hand sanitizer

5

Open and put on sterile gloves

6

Carefully remove and discard dressings on the Hickman line site

7

Observe for signs of infection, damage and dislodgment

8

Remove sterile gloves and clean hands with hand sanitizer

CONTINUED ►

Procedure for changing Hickman line dressings - *Stage 2*

9

Open a pair of sterile gloves



10

Open the dressings and gauze and place on the inside of the sterile paper



11

Pour Chlorhexidine solution over the gauze

12

Put on sterile gloves

13

Carefully clean the Hickman line exit site using one piece of gauze at time



14

Carefully clean down the Hickman line



15

Allow the Hickman line & exit site to dry



16

Apply the first IV 3000 dressing to the exit site

17

Form a loop with the Hickman line & then cover this with the second IV 3000 dressing



18

Dispose of used equipment and waste safely and correctly

Procedure for changing the Hickman line filter (Q-syte)

Once weekly

1

Follow steps for administration, opening filter onto sterile paper with other equipment (**Step 6, Preparing Syringe** section)



2

At **step 7** of the *Cassette Preparation* section attach the filter to the end of the extension set

3

Prime the line via the CADD pump as normal ensuring that the filter is also fully primed



4

Continue administration as per guide from **step 8** of the *Cassette Preparation* section.

We hope you have found this guide helpful. The team at your specialist centre will always be happy to help with any queries or concerns you have around your pump or line, so do contact them if you need to.

Read about the experiences of people with PH on IV medication at **www.phocusonlifestyle.org**