

IV Infusion: Curlin Pump

Please refer to your
“Patient Guide to
Infusion Therapy”
booklet for additional
information.

This information is not intended to be a substitute for professional advice. Always do what your doctor, nurse or pharmacist recommends.

These instructions are meant to provide you with the basic steps to administer your medication. Please refer to your Curlin Pump manual for more detailed instructions.

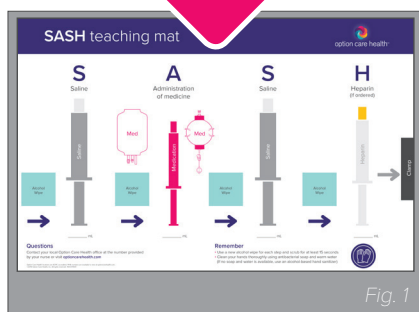


Fig. 1

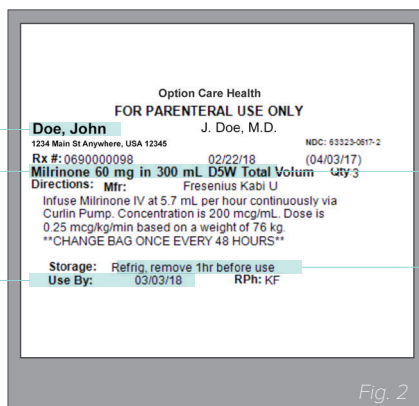


Fig. 2

For demonstration purposes, follow the instructions on YOUR medication bag.

Getting started

- Remove medication from refrigerator at least ____ (minutes/hours) prior to use. Consult medication label for instructions regarding when to remove medication from refrigerator.
- **NEVER** speed the warming process by heating or microwaving the medication
- Use a clean work area
- Clean your hands thoroughly using antibacterial soap and warm water (if no soap and water is available, use an alcohol-based hand sanitizer)
- Dry your hands with a clean towel

1 | Gather your supplies and prepare your SASH mat as instructed:

- SASH mat (See Fig. 1)
- Curlin pump
- IV tubing
- Medication bag
- Flush syringes
 - _____ mL saline
 - _____ mL of heparin _____ units/mL heparin
- Alcohol wipes
- Sharps container (if needed) and/or trash container

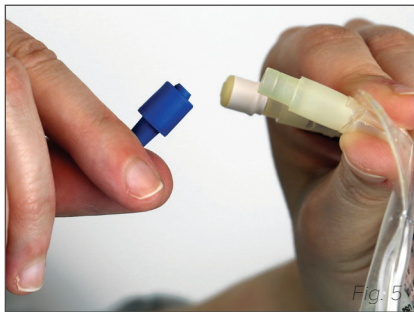
2 | Inspect medication bag

Inspect the medication bag. Check the label on the bag (See Fig. 2) and verify:

- Correct name of patient
- Correct name of medication
- Volume/amount of medication
- Time required to warm medication to room temperature
- Use by date of medication

Medication bag should be free of leaks, floating particles or discoloration. Call your nurse or pharmacist if there are problems with the medication bag or anything on the label is incorrect.

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3 | Change the batteries as directed:

- Locate the battery door on the back of the pump. Open the door by sliding the gray bar right to the **“UNLOCK”** position. (See Fig. 3)
- Remove the battery door by pulling the door downward.
- Remove used batteries and discard as instructed.
- Insert the new batteries, flat bottom side first (*the flat side is the negative pole*). Insert one battery at a time.
- Replace the battery compartment door.
- Lock the door by sliding the gray bar left to the **“LOCK”** position.

4 | Prepare your flush syringes

- Prior to using syringe, push firmly on the thumb press with the tip cap still on, just until you feel the plunger move.
- Expel air and excess solution by twisting off tip cap and pushing plunger forward. Push out extra solution to the amount instructed by your nurse. (See Fig. 4)
- Replace the syringe cap, being careful not to touch the tip of the syringe with your hand. If you touch it, you will need to start over with a clean syringe. Set aside syringe until you are ready to use it.
- Repeat for all flush syringes needed for dose.

5 | Prepare your IV medication

- Remove IV tubing from its package.
- Twist off the break-away tab located on the bottom of the yellow flow-stop.
- Place the medication bag on a clean flat surface.
- Remove the tab from the medication bag. (See Fig. 5)
- Remove the cover from the spike of the tubing. (See Fig. 6)
DO NOT touch the end.
- Spike the bag by pushing and twisting the end of the tubing into the bag port. (See Fig. 7) Make sure the spike reaches the medication in the bag and be careful not to puncture the bag. (See Fig. 8)





Fig. 9



Fig. 10a

Fig. 10b



Fig. 11

6 | Connect the tubing to the pump

- A. Open the door of the pump by lifting the latch on top of the pump. *(See Fig. 9)*
- B. Pull the door up and all the way open.
- C. Remove the used tubing and dispose of in trash container as instructed by your nurse.
- D. Locate the **BLUE** and **YELLOW** arrows within the pump as a reference point. *(These arrows are on the right and left sides of the back plate of the pump.)*
- E. Insert the blue “tubing guide pin” into the tubing guide opening (indicated by the **BLUE** arrow). *(See Fig. 10a)*
- F. Place your finger over the blue “tubing guide pin” to hold it in place.
- G. Stretch the tubing over the top of the pump aligning it into the tubing track.
- H. Place the yellow flow-stop in where shown by the **YELLOW** arrow. *(See Fig. 10b)*
- I. Ensure the tubing is in **FRONT** of the door hinge. There is a notched area on the door hinge for the tubing to exit the pump.
- J. Close the door securely and snap the latch shut. *(See Fig. 11)*

ENTER to Select
PROGRAM
BIOMED SETUP











ENTER to Select
REPEAT Rx
NEW PROGRAM

PRESS
RUN to START
NO to REVIEW
OPTIONS or PRIME

PRESS
PRIME to Cont.
YES to EXIT
Prime Amt: 0.2 ml

7 | Prime your IV tubing

When priming the tubing, it should **NEVER** be connected to the patient. Priming with the set connected to the patient could result in overdose and may cause injury or even death to the patient.

- Turn the pump on by pressing the  key.
 - You will hear a series of beeps while the pump does an internal check.
 - The screen will now read:
 - Using the   arrows, highlight 'PROGRAM' and press the  key.
 - The screen will now read:
- Before leaving the pharmacy, the pump was programmed by your pharmacist per your healthcare provider's orders and was verified by another clinician, if applicable. The pump is in lock mode. You will be unable to change the program.
- Using the   arrows, highlight 'REPEAT Rx' and press the  key.
 - The screen will now read:
 - Release any clamps on the IV tubing.
 - Press and hold the  key. Fluid will be pumped through the tubing as long as the  key is pressed. Continue this process until a small amount of fluid drips from the end of the tubing.
 - When you stop priming, the following screen will appear:
 - Press the  key to exit.

8 | Flush your IV line with saline

Using one of your prepared saline syringes from step #4.

- Scrub the needleless connector on your IV catheter with an alcohol wipe for at least **15 SECONDS** and allow to air dry. (See Fig. 12)
- Remove the protective cap from the saline flush syringe. **DO NOT** touch the syringe tip after removing the cap.

Discard the saline flush syringe if the uncapped sterile tip touches any unclean surface.

- Attach the saline flush syringe to the needleless connector on your IV catheter using a push and clockwise twisting motion until secured together. (See Fig. 13)
- Open the clamp on your IV catheter and/or IV extension set, if indicated.
- Flush your IV catheter using a "push/pause" method. **DO NOT** attempt to flush if resistance is met; call your nurse or pharmacist.
 - mL saline
- Remove and discard the saline flush syringe in a trash container.



Fig. 12



Fig. 13

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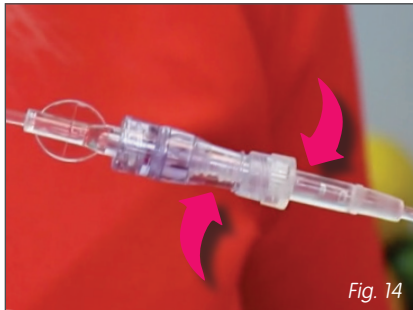
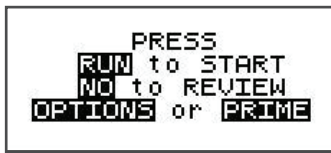


Fig. 14

9 | Administer your medication

- A. Press the **NO** CHANGE key. The pump will automatically review the selected program. Compare this to the label on your medication bag.
- B. Scrub the needleless connector on your IV catheter with an alcohol wipe for at least **15 SECONDS** and allow to air dry. (See Fig. 12)
- C. Remove the protective cap from the IV tubing.
- D. Attach the IV tubing firmly to the needleless connector on your IV catheter using a push and clockwise twisting motion until secured together. (See Fig. 14)
- E. Open all clamps on the IV tubing and your IV catheter.
- F. Press the **RUN** PAUSE key to begin the infusion. You will know your infusion is running when the green light beside the **RUN** PAUSE key is blinking.

10 | Pausing an infusion

- A. The infusion can be paused by pressing the **RUN** PAUSE key. The yellow 'standby' light blinks and the following screen displays:



- B. To resume your infusion where you left off, use the **↑** **↓** arrows to highlight 'RESUME' and press the **YES** ENTER key. Your pump will alarm if you do not restart it within a few minutes. The alarm is a reminder to start the pump.

11 | When it is time to change the bag or you have been instructed to stop your infusion:

Always infuse your medication as instructed.

- A. If your infusion is now complete **OR** you are taking a “disconnect break” between doses, the pump will alarm.
- B. Press the **RUN** PAUSE key to silence the alarm.
- C. Turn the pump off by pressing the **ON** OFF key.
- D. Disconnect the IV tubing and discard all equipment as directed in a trash container.

If the tubing is to be used again within 24 hours, cover the exposed IV tubing tip with a sterile cap provided.

12 | Flush your IV line with saline, if instructed

(if your infusion is complete or you are taking a “disconnect break” between doses)

- A. Scrub the needleless connector on your IV catheter with an alcohol wipe for at least **15 SECONDS** and allow to air dry. *(See Fig. 12)*
- B. Remove the protective cap from the saline flush syringe.
DO NOT touch the syringe tip after removing the cap.

Discard the saline flush syringe if the uncapped sterile tip touches any unclean surface.

- C. Attach the saline flush syringe to the needleless connector on your IV catheter using a push and clockwise twisting motion until secured together. *(See Fig. 13)*
- D. Flush your IV catheter using a “push/pause” method. **DO NOT** attempt to flush if resistance is met; call your nurse or pharmacist.
 - _____ mL saline
- E. Close the clamp on your IV catheter and/or IV extension set unless you have been instructed to use heparin.
- F. Remove and discard the saline flush syringe in a trash container.

13 | If hooking up a new bag at this point, return to step #5 (omitting step #8)

14 | Flush your IV line with heparin, if instructed

(if your infusion is complete or you are taking a “disconnect break” between doses)

- A. Scrub the needleless connector on your IV catheter with an alcohol wipe for at least **15 SECONDS** and allow to air dry. *(See Fig. 12)*
- B. Remove the protective cap from the heparin flush syringe.
DO NOT touch the syringe tip after removing the cap.

Discard the heparin flush syringe if the uncapped sterile tip touches any unclean surface.

- C. Attach the heparin flush syringe to the needleless connector on your IV catheter using a push and clockwise twisting motion until secured together. *(See Fig. 13)*
- D. Open the clamp on your IV catheter and/or IV extension set, if indicated.

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- E. Flush your IV catheter using a “push/pause” method. **DO NOT** attempt to flush if resistance is met; call your nurse or pharmacist.
 - _____ mL of heparin _____ units/mL heparin
- F. Close the clamp on your IV catheter and/or IV extension set, if indicated.
- G. Remove and discard the heparin flush syringe in a trash container.

Curlin Pump keypad guide and alarms

These are the common pump keys and alarms you may experience. Call your Option Care Health pharmacy for assistance as needed at any time.



Alarm type and/or message	Problem/action
LOW C-BATTERIES	Pump batteries are dislodged or are low in power. Pause your infusion by pressing the key and turn the pump off. If new batteries have been installed, open door and reinsert. Otherwise, install new batteries. Depending on the rate, you will have between 30 min – 4 hours to change the batteries.
ALARM_UP OCCLUSION	The pump senses low pressure of medication from the IV bag to the pump. Press . Check for clamps that are closed or kinks in the tubing. Open the clamp or remove the kink and resume the infusion.
ALARM_DOWN OCCLUSION	The pump senses high pressure between the pump and the IV device. Press . Check for clamps that are closed or kinks in the tubing. Open the clamp or remove the kink and resume the infusion. If the alert continues, call your nurse or pharmacist.
INFUSION COMPLETE	Press and turn the pump off. Start a new bag of medication as instructed.
AIR-IN-LINE	The sensor has picked up air in the line. Disconnect the tubing from the IV catheter using aseptic technique. Press the key until the air has been removed.
ALARM UNATTENDED	The pump will alarm when left idle for 2 minutes. Press to start the infusion or press to power down the pump.

Call your nurse or doctor with any questions or concerns



Your Option Care Health team is available on call 24/7/365 to assist you.

To view video instructions and access additional educational resources, visit optioncarehealth.com/education.

(SASH) Procedure Summary:

- Flush IV with _____ mL **(S)**aline
- **(A)**dminister medication continuously as instructed
- With any interruption in the infusion or when the infusion is complete:
 - Flush with _____ mL **(S)**aline
 - Flush with _____ mL **(H)**eparin, if ordered



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