

## IV MEDICINE AT HOME: ECLIPSE BULB

**Patient Name :** \_\_\_\_\_ **MRN** \_\_\_\_\_ **DOB** \_\_\_\_\_

### Medication Information

Name of Medication: \_\_\_\_\_ Dose: \_\_\_\_\_

Medication stable at room temperature for: \_\_\_\_\_

Give medication every \_\_\_\_\_ hours

Times to give medication:

|  |  |  |  |  |  |
|--|--|--|--|--|--|
|  |  |  |  |  |  |
|--|--|--|--|--|--|

### Normal saline flush solution

Amount to give: \_\_\_\_\_ ml

When to give it:

- before and after giving the medication
- \_\_\_\_\_

### Heparin flush solution

Solution: \_\_\_\_\_ units/ml

Amount to give: \_\_\_\_\_ ml

When to give it:

- After giving the medication and normal saline flush
- \_\_\_\_\_

### **What is an Eclipse Bulb?**

The Eclipse Bulb is a balloon-shaped container filled with medicine. It has a tube that you attach to your child's IV. The pressure created when the balloon is filled with the medicine is what pumps the medicine through the tubing. The size of the tubing and the amount of fluid determine how long it takes for the balloon to empty.

### **Preventing infection**

It is very important to prevent infection. Failure to do so might require removal of the central venous catheter. The nurse will show you how to keep your supplies clean, so no germs will enter the catheter and cause an infection.

*Cleanliness is a must!*

Each time you handle supplies or perform a procedure, do the following steps:

1. Prepare a clean work space area by cleaning a solid surface with household cleanser.
2. Clean hands well, using one of the following methods:
  - Use an alcohol hand sanitizer according to directions.
  - If hands are dirty or alcohol hand sanitizer is not available, wash hands for *at least 20 seconds* with soap, rubbing all surfaces briskly, including fingernails. Use a paper towel or clean hand towel to dry your hands, and then use the towel to turn off the faucet.
3. Before *each time* you flush or attach a new syringe/tubing to the injection cap, scrub the injection cap for 30 seconds with a fresh chlorhexidine wipe, using friction. Let it dry. Do not fan or blow on it.

### **Getting ready**

1. Warm the medication to room temperature
  - Remove the medication from the refrigerator as directed. Your homecare nurse will discuss with you how early this should be removed to make sure it is safe to use.
  - Do not use a microwave, oven, or water to warm.
2. Check the label on the syringe and verify:
  - Child's name
  - Medication/Dose
  - Expiration date

### **Mixing the medicine (ONLY IF NEEDED)**

*Note: Most medications will be ready to give without needing to mix. Your nurse will let you know if this is necessary.*

1. Mix the medicine right before giving it.
2. Put on non-sterile gloves and scrub the tops of the vials with a separate alcohol wipe for each for 30 seconds. Let them dry.
3. Mix the powder in the vial according to the directions on the label. Be sure the powder is dissolved.
4. Draw up your child's dose of medicine from the vial.
5. Unscrew the lid on the top of the Eclipse bulb.
6. Remove the needle from the syringe, and twist the syringe tip into the top of the Eclipse bulb.
7. Push the syringe plunger to put the medicine into the Eclipse Bulb. You may need to push on the syringe plunger quite hard.

### **Priming the tubing**

1. Remove the cover from the end of the Eclipse Bulb tubing. Do not touch the tip once the cap is off; carefully place this face up on a clean surface.
2. Unclamp the tubing of the Eclipse Bulb and make sure you see a drop of fluid at the end of the line.
3. Clamp the Eclipse Bulb immediately and return the cover to the end of the Eclipse Bulb tubing.

### **Connecting Medication/Fluids to Patient**

#### **Review of S.A.S.H. method:**

1. Flush with normal **S**aline
2. **A**dminister medication or fluid
3. Flush with normal **S**aline
4. Flush with **H**eparin



**Note:** Every time you flush the IV line with normal saline or heparin, use the "**push-and-pause**" method: push a little solution, then pause for 1 to 2 seconds, then push a little more, pause, and so on. This method cleans the inside of the IV line. Your home care nurse will show you how to do this.

1. Gather supplies:
  - chlorhexidine wipes
  - normal saline syringes or dextrose solution syringes (2)
  - heparin syringe
  - IV medicine/fluids you will be giving
  - non-sterile gloves
  - disinfectant cap
2. Put supplies in order of use on the work surface.
3. Check the labels of the normal saline and heparin syringes, and any other medicines or fluids before giving them. Make sure they are the right medicines.
  - A medicine is good until the end of the day on the day it expires. Throw it away sooner if you see sediment in it or if you question its cleanliness. If you do throw a medicine away, be sure to call the home care pharmacy for a replacement dose.

**Preparing pre-filled syringes:**

All pre-filled syringes have an air bubble in them (normal saline, heparin). Remove the tip cover from the syringe and point the syringe upward, pull back slightly on plunger and squirt air bubble out.

4. Put on non-sterile gloves.
5. Remove disinfectant cap **OR** if disinfectant cap not in place, scrub the injection cap with a chlorhexidine wipe for 30 seconds and let it dry.
6. Attach normal saline syringe tip into the injection cap.
7. Unclamp the catheter.
8. Flush with normal saline using the push-and-pause method. When syringe is empty, remove it from the injection cap.
9. If you are not giving medicines at this time, go to step 1 of the next section.
10. If you are giving medicines, scrub injection cap with a new chlorhexidine wipe for 30 seconds and let it dry.
11. Connect the Eclipse bulb tubing to the patient's IV line.
12. Open all clamps. The Eclipse bulb will start infusing once the clamp is open.
13. Place the Eclipse bulb in a pocket or on a nearby surface while the medicine is infusing.

**At end of infusion or when medication complete:**

1. Clamp the Eclipse bulb tubing and disconnect from the injection cap.
2. Scrub the injection cap with a new chlorhexidine wipe for 30 seconds and let it dry.
3. Attach normal saline syringe and flush using the push-and-pause method. When syringe is empty, remove it from the injection cap.
4. Scrub the injection cap with a new chlorhexidine wipe 30 seconds and let it dry.
5. Attach heparin syringe and flush using the push-and-pause method. When syringe is empty, remove it from the injection cap.
6. Clamp the line.
7. Apply disinfectant cap to injection cap.

**Important Tips**

- If medication is not at room temperature it will not infuse at the correct rate.
- When all the medication has been given, a small amount of fluid will remain in the Eclipse bulb.

**Questions?**

If you have any questions, please call your home care nurse.