

HI-DOSE STEP-BY-STEP INSTRUCTIONS

PATIENT PREP

- Sign consent form
- Explain benefits
- Take vitals

MACHINE AND CUVETTE LINE SEQUENCE

Patient ► Pumps ► UV Machine ► IV Bag

PREP IV

1. Insert admin kit spike into IV bag that is a part of the Hi-Dose Cuvette.
2. Hang Hi-Dose bag with inputs up. Drape the site glass or reservoir across to the other side of the pole so it is laying more horizontal.
3. Draw 60ml of saline into a 60cc syringe, using 18G needle
4. Prime the line towards the patient, by pushing saline at the Hi-Dose cuvette Y port, eliminating air from the tubing. Clamp.
5. Push the additional saline towards IV bag to eliminate all air from the cuvette.
 - a. Clamp the line with either a blue clamp or using the roller clamp.
6. Insert cuvette into the UV machine.
7. Place patient side of cuvette line into infusion pump so that the blood pumps from patient to the bag.
 - a. Open the face of infusion pump.
 - b. Lift up and push to the right, the small grey trip lever, found on the inner left side of pump.
 - c. The fluid flow of direction only goes from right to left.
 - d. Pull the cuvette line taught and load the line. Make sure the line is pushed in FULLY where the bubble sensor is located to avoid an air bubble alarm.
 - e. Close the face of infusion pump.
8. Using the same 60ml syringe, fill with 4,000 IU of heparin/saline mixture.
 - a. Draw up 60cc of saline into the syringe.
 - b. Put the heparin in the syringe.
9. Attach the small line, included with the HD Cuvette, to the heparin/saline syringe.
 - a. Prime the line and clamp off at the distal end.
 - b. Load syringe into the syringe pump.
 - c. Program syringe pump.
 - Preset for BD, check mark
 - No to last settings
 - Rate = 150 ml/hr, check mark
 - Volume 50 cc of the 60 in syringe is the VTBI (volume to be infused), check mark
10. Program the Infusion Pump.
 - a. Choose SHINVA
 - b. No, to use last settings.
 - c. Flow Rate = set to 1200ml/h, check mark
 - d. VTBI (volume to be infused) = 330 ml of blood/saline from patient to bag, check mark.
 - e. Should take 16 minutes.
11. Prepare patient, insert 19g – 21g butterfly needle or catheter into patient's vein.
 - a. If using a butterfly, the butterfly line needs to be primed with patient's blood. After patient stick, remove the cap on the end of the tubing, blood should flow freely. Attach to cuvette line.