NXSTAGE CYCLER SET UP AND PUREFLOW TREATMENT

NOTE: This information was provided by a NxStage user. The non-profit Medical Education Institute and Home Dialysis Central are not responsible for this content. Please have YOUR care team review it before use.

☐ Put on gloves and wipe down the room with bleach water or bleach wipes.
☐ Wash your hands and access arm.
☐ Open CYCLER door. Turn on CYCLER. **YELLOW** caution light will flash.
☐ Test the FLUID DETECTOR with a **wet napkin**.
☐ Check a SALINE BAG (SEAL: Solution, Expiration, Amount, Leaks).
☐ Open the checked SALINE BAG.
☐ Remove a CARTRIDGE from its packaging: Secure connections & caps.
☐ Remove connector tabs, paper tape, and line organizer.
☐ Remove and save the “PEANUT.”
☐ Insert CARTRIDGE into CYCLER. Press TUBING into AIR DETECTORS.
☐ Close CYCLER door and put on gloves.
☐ Insert PRIMING SPIKE into SALINE BAG.
☐ Attach ACCESS PRESSURE POD and press ADD FLUID to start PRIMING.

While PRIMING, get the PUREFLOW ready:
☐ For a new BATCH, test CHLORAMINES:
  o Gather a bucket, small medicine cup, and chloramine test strips.
  o Close the **ORANGE** clamp connected to the Pureflow. Disconnect the **ORANGE** line. Put the open end of the **ORANGE** line into the cup.
  o Press GO. Wait 1 minute before fluid comes out. Fill cup to 20mL.
  o Let the rest of the fluid drip into the bucket. It will stop on its own.
  o Reconnect both of the **ORANGE** lines.
  o Vigorously swish the test strip in the water for 10 seconds.
  o Wait 30 seconds. Compare test strip to the color wheel on the bottle.
  o Result should be less than or equal to 0.1.
☐ Press GO if the test was passed. See: Config to Use Batch.
☐ Press GO again. See: **Batch in Use**.
☐ PRIME and CLAMP the SAK 3-WAY DIALYSATE OUTLET LINE. Choose any one of the 3 clamps to REOPEN.
Prep the Medication Tray

- Wash hands or use hand sanitizer, and put on clean gloves.
- Open all 10mL syringes. DON’T TOUCH ANY TIPS.
- Fold paper down on syringes, but leave them in the packages.
- Open a 10mL syringe and a 21 gauge needle. DO NOT TOUCH THE TIP.
- Attach the 21 gauge needle to the 10mL syringe.
- Clean a heparin vial with alcohol for 10 seconds.
- Pull the plunger out to the prescribed dosage. Insert the needle in the vial.
- Push the air into the vial, then withdraw the prescribed dosage of heparin.
- With needle up, tap the syringe to move air to the top. Remove bubbles.
- Arrange syringes and blood tubes in order on your tray. Change gloves.

After PRIME is Complete

- When you see all 8s, press MUTE. At 1234, ABCD, etc., press MUTE again.
- When you see 23.0 & 000 Do not press STOP. Proceed to Snap & Tap.
- Snap & Tap the RED Line, then the BLUE line.
- Roll, Tap, Tilt the cartridge with the BLUE end up. Put cartridge in holder.
- Prime & CLAMP the POST-FILTER PORT.
- Add the BLUE clamp & 30mL syringe to the POST-FILTER PORT.
- Press STOP, then prime & clamp the SALINE T (WHITE clamp)
- CLAMP the SALINE (WHITE) and DIALYSATE (GREEN) lines.
- Remove and discard the CAP from the SALINE T.
- Disconnect the (WHITE) and GREEN lines from each other.
- Connect the SALINE line to the SALINE T; do NOT unclamp.
- Connect the DIALYSATE INLET LINE (bright GREEN clamp) to the dialysate source (dark GREEN clamp). Then UNCLAMP BOTH.
- CLAMP all 4 RED and BLUE clamps.
- Disconnect the RED line. Attach a 10mL syringe to a PRIMING SPIKE.
- Attach the PEANUT to the RED line.
- Disconnect the BLUE line. Attach a 10mL syringe to the PRIMING SPIKE.
- Attach the BLUE line to the PEANUT.
Set the **RED** and **BLUE** lines connected to the PEANUT aside until you are ready to connect to the needles after cannulation.

- Fill the 2 syringes connected to the SALINE bag and leave connected.
- CLAMP and disconnect the waste line from the PRIMING SPIKE.
- Connect the WASTE LINE from the PRIMING SPIKE.
- Connect the WASTE LINE to the PUREFLOW control unit adapter (**YELLOW** clamp).
- UNCLAMP BOTH **YELLOW** clamps. Remove gloves.

**To Begin a Treatment with NxStage**

- Press TOGGLE and enter the VOLUME.
- Press TOGGLE; enter RATES for: **GREEN ___ YELLOW ___ RED ___**
- Put on a **MASK** and **GOWN**.
- Wash your hands or use hand sanitizer and put on new gloves.
- Apply your access site prep.
- Put on a tourniquet (if used) and do your needle sticks. Tape the needles.
- Perform a flow check and saline flush. Note the saline flush time: _____
- Push heparin per the order on your laminated card.
- Remove the tourniquet.
- CLAMP the PATIENT LINES (**WHITE**, **RED**, and/or **BLUE** clamps (depending on prescription).
- Unhook the ARTERIAL LINE (**RED** clamp) from the PEANUT and CAP.
- Connect the ARTERIAL line to the PATIENT ARTERIAL LINE. NOTE: Be careful—do not switch lines!).
- Unhook the VENOUS LINE (**BLUE** clamp) from the PEANUT and CAP.
- Connect the VENOUS line to the PATIENT VENOUS LINE.
- UNCLAMP ALL 4 CLAMPS on the ARTERIAL and VENOUS LINES.
- Secure the LINES to your arm and shoulder.
- Check the PUREFLOW “Batch in Use” and Expiration Time.
Perform a System Check

☐ Is RED secured to the bottom needle?
☐ Is BLUE secured to the top needle?
☐ Are the RED and BLUE lines OPEN to the access arm?
☐ Is the SALINE T clamped?
☐ Are all GREEN dialysate lines OPEN to the PUREFLOW? OR,
☐ If using BAGS, are both clamps open?

Start the PureFlow and Cycler

☐ Press GO on the PureFlow 2 times to see PureFlow is ON, Batch in Use.
   You should see a solid GREEN bar on the PureFlow. Note time remaining.
☐ Check that both of the YELLOW WASTE LINES are open.
☐ Check that the FILTER PORT has no air.
☐ Observe heparin wait time if prescribed.
☐ Double check that YELLOW and GREEN rates and volume are entered.
☐ Press TREATMENT.