

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: **S**olution, **E**xpiration, **A**mount, **L**eaks).
- 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:
 - Gather a bucket, small medicine cup, and chloramine test strips.
 - Close the **ORANGE** clamp connected to the Pureflow. Disconnect the **ORANGE** line. Put the open end of the **ORANGE** line into the cup.
 - Press GO. Wait 1 minute before fluid comes out. Fill cup to 20mL.
 - Let the rest of the fluid drip into the bucket. It will stop on its own.
 - Reconnect both of the **ORANGE** lines.
 - Vigorously swish the test strip in the water for 10 seconds.
 - Wait 30 seconds. Compare test strip to the color wheel on the bottle.
 - 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 Cyclor

- 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.