



MANITOBA RENAL PROGRAM

SUBJECT <ul style="list-style-type: none"> ▪ NxStage Installation of a New Dialysate SAK® 	SECTION 50.20 Home Hemodialysis
	CODE 50.20.07
AUTHORIZATION <ul style="list-style-type: none"> ▪ Professional Advisory Committee, Manitoba Renal Program 	EFFECTIVE DATE January 2018
	REVISION DATE

PURPOSE:

1. Describe the steps for installation of the Dialysate SAK®.

POLICY:

1. Registered Nurses in the Home Hemodialysis program who have received instruction and have demonstrated competency to the renal educator or delegate may instruct patients on the Home Hemodialysis program on the installation of the Dialysate SAK®.

EQUIPMENT:

- PureFlow SL® and Cabinet
- SAK® (Series 300 or Series 400) as ordered

PROCEDURE:

KEY POINT:

1. Perform hand hygiene.
2. Ensure that the PureFlow SL® is on and in Standby. The PureFlow SL® display will read.

**STANDBY: No Batch
Press GO to Start**

3. Press "GO" on the PureFlow SL®. The Display will Read.

**Open Door
Load SAK-XXX**

4. Remove SAK® from the package.
5. Check the expiry date of the SAK®. Do not use if expired.
6. Flip the folded SAK® to the clear area on the back side and check for foreign material by gently pressing on the SAK®. Also look for any discoloration and/or cloudiness of the fluid inside of the SAK®. Check
 - If foreign material is found or if discoloration and/or cloudiness exists do not use the SAK®.

PROCEDURE:

for leaks while pressing gently on the SAK®. Confirm and check that all caps and connections are secure.

7. Verify that the SAK® Type being used matches the patient's prescription and the SAK® type shown on the control panel display on the PureFlow SL®.

8. Open the cabinet door on the PureFlow SL® and pull out the tub.

9. Place the SAK® into the centre of the tub with the label facing up.

10. Lift the label end of the folded SAK® until it touches the back wall of the tub.

11. Gently tighten the caps on the end of the dialysate line ("chicken toe") to avoid contamination.

12. Unfold the front fold of the SAK® toward the front of the tub.

13. Remove and discard the protective foam sheet between the SAK® lines and the SAK® bag.

14. Gently push the SAK® against the front wall of the tub, to make sure it seats properly.

15. Remove the piece of paper holding the lines.

16. Uncoil the SAK® lines and verify that none of the lines are kinked or crossed.

17. Open the PureFlow SL® control panel door.

KEY POINT:

- If leak is identified discard and obtain a new SAK®.
- If there are any caps and connections that have fallen off on the SAK® water inlet line discard the SAK®.
- Complete Medical Product Complaint Form as necessary. Instruct patients to notify healthcare provider.

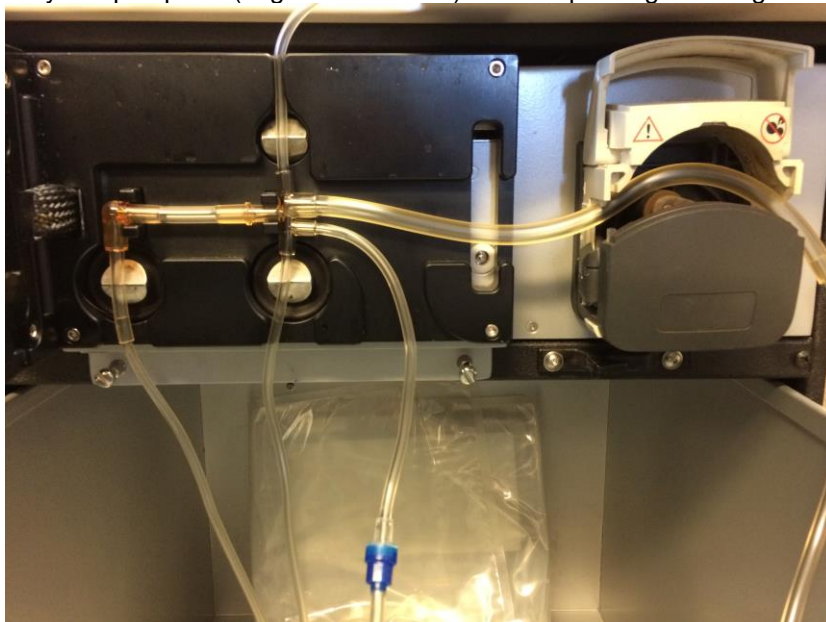
- The SAK® type is the first three letters and the first three numbers of the SAK® REF number (**SAK-XXX**).
- If it does not match, press and hold "**STOP**" to return to standby and then change the setting as per procedure, 50.20.04 *Changing the Dialysate SAK® Type*.

- The SAK® must be loaded into the tub so that when it is unfolded, the front and the rear of the SAK® are at the same height. The SAK® is folded and packaged so this should occur automatically, but it is important to verify. If the SAK® is not loaded properly alarms might occur.

- Ensure the SAK® dialysate "chicken toe" caps are secure. Gently tighten caps on end of green dialysate line to avoid contamination.

PROCEDURE:

18. Open the PureFlow SL® dialysate pump cover by lifting it up.
19. Make sure that the lines are not twisted around each other. Insert the “Five Way” connector and the elbow joint into the retaining clips and run the lines through the channels as shown in the following picture. The dialysate pump line (large diameter line) must be pointing to the right.



20. Run the PureFlow SL® dialysate line through the dialysate pump.
21. Close the PureFlow SL® dialysate pump cover.
22. Close the PureFlow SL® control panel door.
23. Locate the lines with the green “Line Collar Assemblies” exiting from the SAK®.
24. Pull the lines on each side of the fold to release the fold. Repeat for the second line.
25. Slide the “Line Collar Assemblies” over the previously folded areas on both lines. Failure to do so may cause flow restrictions which may cause alarm conditions.
26. Wait at least two seconds after closing the PureFlow SL® control panel door. The display should read “**Connect Lines**”.

KEY POINT:

- SAK® lines adjacent to the “Line Collar Assemblies” are intentionally folded for shipping purposes.
- If required, slide the tub into the cabinet in order to create some slack in the SAK® lines.

- Ensure that the dialysate pump line of the SAK® is centred in the pump prior to closing the dialysate pump cover.
- The control panel door will not close if the dialysate pump door is open. The PureFlow SL® control panel door should close easily. If not check that the lines are not pinched by making sure the lines are seated properly, move freely and hang straight down.

PROCEDURE:

27. Remove the protective cap from the SAK® water inlet by flipping the cap up.
28. Connect the PAK® water outlet line to the SAK® water inlet line (Blue Cap).
29. Remove the connector tab on the SAK® water inlet line by first pinching and then pulling the tab.
30. Verify that the luer connection on the SAK® water inlet line is tight by turning the blue rotating collar clockwise until tight.
31. Drape the SAK® water inlet line outside of the dialysate tub. Make sure that the 0.2 micron filter is also outside of the tub.
32. Unclamp the blue reopening clamp on the PAK® water outlet line connecting to the SAK®.
33. Remove the cap from the SAK® line with the orange clamp.
34. Connect the SAK® line with the orange clamp to the conductivity sensor line.
35. Open the orange clamp on the conductivity sensor line.
36. Completely slide in the tub and close the cabinet door.

37. Press “GO” on the PureFlow SL® control panel. The display will read eg:

60L BATCH TR: HH:MM
TEST NAME

38. The PureFlow SL® will conduct a series of self-tests, after these tests are completed the PureFlow SL® control panel display indicates the size of the SAK® and time remaining to complete making the SAK®, eg:

60L BATCH TR: HH:MM
Making Batch....

39. When the batch is almost complete the PureFlow SL® performs a conductivity check of the SAK®.

40. After passing the conductivity check the PureFlow SL® prompts the user to perform a check for Chloramines. Document.

KEY POINT:

- Be sure that the lines do not get caught in the cabinet door and are not kinked.

- If conductivity fails the machine will recheck up to 2 more times and if the conductivity continues to fail it will drain the SAK®.

- See *50.20.09 NxStage Testing Chloramines*

DOCUMENTATION:

- SAK® Serial Number and SAK® type documentation on treatment record

REFERENCES:

Nxstage PureFlow SL User Guide. Software version 1.13, 1.14, and 1.15. NC5342 Rev. D 2015-09-09