



## MANITOBA RENAL PROGRAM

<b>SUBJECT</b> Manual Reinfusion Procedure in the Event of Power Failure and Empty Battery/System Failure	<b>SECTION</b> 30.10 Hemodialysis: Equipment Procedures
	<b>CODE</b> 30.10.23
<b>AUTHORIZATION</b> <ul style="list-style-type: none"> <li>▪ Professional Advisory Committee, Manitoba Renal Program</li> <li>▪ Nursing Practice Council, St. Boniface Hospital</li> </ul>	<b>EFFECTIVE DATE</b> April 20, 2018
	<b>REVISION DATE</b>

### PURPOSE:

1. To provide instruction for manual reinfusion of patient's blood in the event of power failure and empty battery when using the Fresenius 5008.

### POLICY:

1. Hemodialysis Nurses who have received instruction from the educator or delegate may perform these procedures.

### KEY POINT:

### PROCEDURE:

**For ONLINE priming** (if Fresenius 5008 set up with saline priming and reinfusion, proceed to step 4)

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| <ol style="list-style-type: none"> <li>1. Collect supplies (NaCl 0.9% at least 500 mL and IV infusion line) for reinfusion as per MRP Policy 30.10.04 <i>Converting to 0.9% NaCl bolus or NaCl reinfusion using the Fresenius 5008 ONLINEplus™ System.</i></li> <li>2. Spike NaCl bag with IV infusion line. Prime the infusion line and then clamp.</li> <li>3. Attach the IV infusion line to the T-Line (found on the arterial blood line portion of the extracorporeal circuit).</li> </ol> | <ul style="list-style-type: none"> <li>• Substitute fluid is not available for reinfusion during power failure and patient must be reinfused using sterile NaCl 0.9%</li> <li>•</li> <li>• Follow aseptic technique and MRP policies for 30.20.01 <i>Venipuncture of the Arteriovenous Fistula/Graft</i>, 30.20.02 <i>Accessing and Locking Dialysis Central Venous Catheter (Anticoagulant/Thrombolytic/Antibiotic Locking)</i>, or 30.20.04, <i>Use of Closed Needleless Access Device with Hemodialysis Central Venous Catheters</i></li> </ul> |
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### **Perform the following steps for both saline and ONLINE priming setup**

4. Clamp and disconnect the arterial blood line from the patient's vascular access.
5. Attach the arterial blood line to the Y port of the infusion line.

6. Swing out the handle located in the blood pump rotor. The handle may only be rotated in a clockwise direction as indicated by the red arrow.



7. Remove the tubing system from the arterial and venous occlusion clamps.
8. Visually inspect line for air to ensure patient does not receive air embolus.
9. Open the clamps on the IV infusion line and on the arterial blood line.
10. Using the handle, rotate the pump **clockwise** only to reinfuse the blood.
11. Once bloodlines are clear, close clamps on the bloodlines and vascular access. Disconnect venous blood line from patient.
12. Proceed with patient care as indicated.
- The air detector does not function during power failure with empty battery.
  - Typically approximately 300 mL will be needed to reinfuse the patient.
  - If needed, maintain vascular access and prepare another Fresenius 5008 for use in order to provide patient with Hemodialysis treatment as ordered.
  - If patient is not to continue treatment, notify physician if patient has not received their full treatment and perform post hemodialysis procedures for vascular access.

#### **DOCUMENTATION:**

- Integrated progress notes (IPN) prn
- Hemodialysis Treatment Record
- Equipment Repair Form

#### **REFERENCES:**

Fresenius Medical Care (2015) 5008 Hemodialysis System: Instructions for use. Software version 4.57. (Edition 10B-2015) Richmond Hill , ON