



## MANITOBA RENAL PROGRAM

<b>SUBJECT</b> Emergency Reinfusion Procedure using the Fresenius 5008	<b>SECTION</b> 30.10 Hemodialysis: Equipment Procedures
	<b>CODE</b> 30.10.22
<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 outline the procedure for emergency reinfusion for patients when using the Fresenius 5008.

### POLICY:

1. Hemodialysis Nurses who have received instruction from the educator or delegate may perform this procedure.

### PROCEDURE:

### KEY POINT:

#### A. Emergency reinfusion when using ONLINE priming

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|---|--|
| <ol style="list-style-type: none"> <li>1. Touch the red and white emergency button located on the right hand side of the screen.</li> </ol>   | <ul style="list-style-type: none"> <li>▪ The on line bolus screen will appear. Ultrafiltration will automatically stop and a blood pressure measurement will immediately be attempted.</li> </ul>  |
|    |  |
| <ol style="list-style-type: none"> <li>2. Select <i>Start Bolus</i><br/>Once substitute pump starts, decrease blood pump speed to 0 mL/min</li> </ol>   | <ul style="list-style-type: none"> <li>▪ The blood pump automatically starts at 50 mL/minute.</li> <li>▪ Bolus volume is pre-set for 150 mL but can be manually adjusted,</li> </ul>   |
| <ol style="list-style-type: none"> <li>3. Continue with bolus until blood lines are clear to venous access.<br/>Additional volume can be given as needed by selecting additional boluses on the ONLINE Bolus screen.</li> </ol> | <ul style="list-style-type: none"> <li>▪ Blood will remain in the circuit from the Safeline back to the arterial access.</li> <li>▪ Do not attempt to return blood in arterial bloodline as risk of air to patient too great. Discard blood in arterial bloodlines with blood tubing.</li> </ul> |
| <ol style="list-style-type: none"> <li>4. Proceed with appropriate patient care.</li> </ol>   |  |

#### B. Emergency infusion when using 0.9% NaCl priming

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|---|--|
| <ol style="list-style-type: none"> <li>1. Reduce the blood pump speed to 200 mL/min.</li> </ol>   | <ul style="list-style-type: none"> <li>▪ If the emergency button (located on right side of screen) is pressed the blood pump speed will automatically decrease to 200 mL/min.</li> </ul> |
| <ol style="list-style-type: none"> <li>2. Open saline administration set and "T"-line.</li> </ol> | <ul style="list-style-type: none"> <li>▪ Ensure that there is at least 500 mL of 0.9% NaCl available.</li> </ul>   |

**PROCEDURE:**

3. Clamp or manually kink the arterial blood line on the patient side of the "T"-line.
4. With the blood pump continuing to run, allow sufficient 0.9% NaCl to infuse until the venous blood line appears clear. More 0.9% NaCl may be used if necessary.
5. Stop the blood pump.
6. Clamp the venous blood line and venous access.
7. Clamp arterial bloodline and access.
8. Proceed with appropriate patient care.

**KEY POINT:**

- Do not attempt to return blood in arterial bloodline as risk of air to patient too great. Discard blood in arterial bloodlines with blood tubing.

**REFERENCES:**

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