



## MANITOBA RENAL PROGRAM

<b>SUBJECT</b> <ul style="list-style-type: none"> <li>▪ Peritoneal Catheter Irrigation</li> </ul>	<b>SECTION</b> 40.10 Peritoneal Dialysis Procedures
	<b>CODE</b> 40.10.10
<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> March 2005
	<b>REVISION DATE</b> October 2012 December 2014 May 2017

### PURPOSE:

1. To check for catheter patency and to promote appropriate outflow/inflow from the peritoneal cavity.

### POLICY:

1. All Registered Nurses (RN) and Licensed Practical Nurses (LPN) who have received education and training and who are competent may perform this procedure.
2. Registered Nurses (RN) and Licensed Practical Nurses (LPN) outside of the Peritoneal Dialysis (PD) unit will consult with the PD unit/Nephrologist prior to irrigating the PD catheter.
3. Notify the Nephrologist if the catheter remains plugged after irrigation.

### EQUIPMENT:

- 20 mL syringe (2)
- Blunt fill needle (2)
- Sterile 0.9% NaCl
- alcohol swab(s)
- Baxter Opticap Disconnect Cap (Opticap)  
or
- Baxter MiniCap Disconnect cap x 2 (procedure done in dwell phase).

### KEY POINTS:

- Check expiry date
- Check expiry date
- Check expiry date
- Second MiniCap in case of contamination

### PROCEDURE:

### KEY POINTS:

#### A. TWIN BAG (CAPD):

1. Draw up 20 ml of sterile 0.9% NaCl into each of 2 – 20 ml syringes.
2. Perform hand hygiene.

## **PROCEDURE:**

3. Open Opticap/MiniCap package and keep within easy reach.
4. Disconnect Twin Bag line from transfer set (or remove mini cap from transfer set if procedure is done during dwell phase of exchange).
5. Apply MiniCap to exposed transfer set.
6. Apply Opticap to exposed end of Twin Bag line or discard Twin Bag if using MiniCap only.
7. Perform hand hygiene.
8. Remove MiniCap from transfer set.
9. Attach 20 ml syringe of sterile 0.9% NaCl to transfer set.
10. Open twist clamp on transfer set.
11. Using gentle pressure, infuse sterile 0.9% NaCl into the peritoneal cavity.
12. Gently attempt to aspirate.
13. Close twist clamp on transfer set.
14. Remove syringe.
15. Attach second syringe to transfer set, open twist clamp and infuse 0.9% NaCl into the peritoneal cavity.
16. Close twist clamp on transfer set.
17. Remove syringe.
18. Attach Twin Bag line (or MiniCap if procedure done in dwell) to transfer set.
19. Open twist clamp on transfer set and/or remove clamp on drain line to resume drainage from cavity.

## **B. CCPD (Cycler):**

1. Draw up 20 ml 0.9% NaCl into 2 – 20 ml syringes.
2. Press “STOP”.
3. Close twist clamp on transfer set.
4. Close clamp on Baxter Home Choice cycler patient line.

## **KEY POINTS:**

- The opticap package contains a MiniCap and an Opticap disconnect cap.
- MiniCap maintains sterility of the exposed end of the transfer set.
- Opticap maintains sterility of the exposed end of the Twin Bag line.
- If unable to infuse contact patients home PD unit.
- Even if unable to aspirate, continue with the next step.
- Do not aspirate with second syringe.
- Finishing with a flush promotes patency of the catheter.
- If Opticap not used when disconnecting twin bag use new Twin Bag.

**PROCEDURE:**

5. Perform hand hygiene.
6. Open Opticap package and keep within easy reach.
7. Disconnect patient line of cyclor from transfer set.
8. Apply MiniCap to exposed end of transfer set.
9. Apply opticap to exposed cyclor patient line and place line in organizer.
10. Remove MiniCap from transfer set.
11. Attach 20 ml syringe of sterile 0.9% NaCl to transfer set.
12. Open twist clamp on transfer set.
13. Using gentle pressure, infuse sterile 0.9% NaCl into the peritoneal cavity.
14. Gently attempt to aspirate.
15. Close twist clamp on transfer set.
16. Remove syringe.
17. Attach second syringe to transfer set, open twist clamp and infuse 0.9% NaCl into the peritoneal cavity.
18. Close twist clamp on transfer set.
19. Remove syringe.
20. Remove Opticap from cyclor patient line and attach patient line to transfer set.
21. Open twist clamp on transfer set and clamp on patient line.
22. Press "GO" to resume treatment.

**KEY POINTS:**

- The Opticap package contains a MiniCap and an Opticap disconnect cap.
- MiniCap maintains the sterility of the exposed end of the transfer set.
- Opticap maintains the sterility of the exposed end of the cyclor patient line.
- If unable to infuse contact patients home PD unit.
- Even if unable to aspirate, continue with the next step.

**DOCUMENTATION:**

- Patient health record
- reason for flush
  - result of flush

## **REFERENCES:**

- Gokal, R., Alexander, S., Ash, S., Chen, T. W., Danielson, A., Holmes, C., et al. (1998). Peritoneal catheters and exit site practices toward optimum peritoneal access: 1998 update. *Peritoneal Dialysis International*, 18, 11-33.
- Prowant, B. F. (2006). Peritoneal dialysis access. In Mohzahn, A. and Butera, E. (Eds.) *Contemporary nephrology nursing: principles and practice 2<sup>nd</sup> edition* (676). Pitman: American nephrology Nurses' Association.