



MANITOBA RENAL PROGRAM

SUBJECT <ul style="list-style-type: none"> ▪ Application of Locking Cap to Peritoneal Catheter 	SECTION 40.10 Peritoneal Dialysis Procedures
	CODE 40.10.04
AUTHORIZATION <ul style="list-style-type: none"> ▪ Professional Advisory Committee, Manitoba Renal Program ▪ Nursing Practice Council, St. Boniface Hospital 	EFFECTIVE DATE September 2003
	REVISION DATE January 2008 May 2012 October 2014 Sept 2017

PURPOSE:

1. To cover the exposed end of the peritoneal catheter when the Baxter ® MiniCap Extended Life Transfer set with twist clamp (transfer set) is removed or when a transfer set is not being utilized.

POLICY:

1. Sterile technique must be used when applying a locking cap to the peritoneal catheter.
2. All Registered Nurses (RN) and Licensed Practical Nurses (LPN) who have received education and training and are competent may apply a locking cap to the peritoneal catheter.

EQUIPMENT:

- Peritoneal dialysis tray
- 10% povidone iodine solution
- Locking cap for titanium adapter (locking cap)
- Sterile gloves
- 10 cm fabric tape
- Sterile 5x5 cm gauze

KEY POINTS:

PROCEDURE:

1. Perform hand hygiene.
2. Gather equipment.
3. Open tray. Add:
 - Povidone,
 - sterile locking cap,
 - 5x5 cm gauze.
4. Perform hand hygiene.

KEY POINTS:

- Maintain sterile field.

PROCEDURE:

5. Don sterile gloves.
6. Pick up catheter with a sterile 10 x 10 cm gauze and place sterile drape under catheter.
7. Scrub the connection for 30 seconds with a 10x 10 cm gauze moistened in Povidone iodine solution while holding catheter with a new dry gauze.
8. Wrap a new gauze moistened in 10% Povidone iodine solution around the catheter connection, ensuring a two minute contact time with connector and the povidone.
9. With another 10 x 10 cm gauze moistened in Povidone, wipe catheter from connection site to midway down catheter.
10. Remove the wet Povidone gauze wrap from around the catheter connection. Allow to dry completely.
11. Hold catheter with a new dry 10 x 10 cm gauze.
12. Clamp catheter.
13. Using a 10 x 10 cm gauze to maintain sterility of gloves, disconnect MiniCap Extended Life Transfer Set with Twist Clamp from titanium adaptor.
14. Apply sterile locking cap to titanium adaptor.
15. Remove clamp.
16. Open 5x5 gauze and wrap around locking cap.
17. Secure catheter and locking cap under tape.

KEY POINTS:

- To protect sterility of gloves
- Total two minute wet contact time includes the 30 seconds of scrubbing.
- Drying time is important for antiseptic effect.
- Ensure that a portion of the 10 x 10 cm gauze is positioned between the catheter and the clamp to protect the catheter from damage.
- For comfort and protection of the integrity of the cap.
- Catheter immobilization prevents trauma and infection to the exit site and promotes healing of the exit site.

DOCUMENTATION:

- Document the date and reason for application of locking cap in the patient health record.

REFERENCES:

Thomas, N. (Ed). (2002). *Renal Nursing* (2nd Edition). (p 222). London, England: Bailliere Tindall.

Perdue Pharma L.P. Betadine Product Monograph retrieved April 23, 2012 from www.purduepharma.com/PI/NonPrescription/A6910BE1.pdf

National Kidney Foundation. (2006). K/DOQI Clinical practice guidelines for vascular access. *American Journal of Kidney Disease*, 37(Suppl. 1), 137 Retrieved February 7, 2012 from www.kidney.org/professional/kdoqi/guidelines_updates/doqiupva_iii.html