



**NEPHROLOGY PROGRAM
DEPARTMENT POLICIES AND PROCEDURES**

**Home Dialysis - Section 10 - CAPD - HDU 10-01
Performing CAPD Exchanges using Physioneal® Solutions
No.: 01496 (TOH Standardized Policy Number)**

ISSUED BY:
HDU Clinical Practice Committee

DATE OF APPROVAL:

APPROVED BY:
Program Clinical Director & Division Head

LAST REVIEW/REVISION DATE:
2016/09

CATEGORY:
CAPD

IMPLEMENTATION DATE:
2004/10

PURPOSE:

- To assist nurses to prepare and use Physioneal® PD solution

POLICY STATEMENT:

- Physioneal® (a bicarbonate base peritoneal dialysis solution) is more biocompatible than the traditional glucose / lactate base peritoneal dialysis solution

DEFINITION(S): N/A

ALERTS:

- Refer to HDU 10-01 Performing CAPD Exchanges using Physioneal Solutions for additional information related to CAPD (Twin Bag) Exchanges as required
- Refer to Performing a Twin Bag Exchange video for visual demonstration of CAPD (Twin Bag) Exchange: https://www.youtube.com/watch?v=VY-BY8K_fmE

Infection Prevention and Control:

Hand Hygiene:

1. Refer to [Corporate Policies and Procedures - #00014 Hand Hygiene](#)
2. Refer to [Corporate Policies and Procedures - #00233 Hand Hygiene Products and Materials](#)

Before initial patient/patient environment contact
Before an aseptic procedure
After body fluid exposure risk
After patient/patient environment contact

Personal Protective Equipment:

1. Refer to [Infection Prevention and Control Policies and Procedures - #00023 Routine Practices](#)

SUPPLIES:

Quantity	Product	Order #
2	blue clamps	
1	IV pole	
1	minicap	320810
1	clean towel	
1	Physioneal® solution, correct strength and warmed	External order to Baxter required: follow ORACLE IProcurement procedures
1	Non sterile gloves	

PROCEDURE:

Preparation

1. Gather supplies on clean surface area
2. Sanitize hands
3. Inspect the overpouch of Physioneal® solution for damage. If damaged, do not use. If intact, open overpouch by tearing down diagonally from one of the notches on one end
4. Check the solution bag for: correct strength, solution clarity, expiry date and leaks
5. Check that protective colored pull ring and the 2 injection ports are in place. Uncoil tubing
6. If ordered, medications should be added through the medication port in the smaller top chamber
7. Break the green seal between the two chambers and wiggle the loose part of the broken seal upwards. This will allow for complete separation of the seal between the two chambers. **Note:** if the seal was already broken, discard that bag, note the lot number and report to the Home Dialysis Unit

Fill Procedure

8. Place a clean towel on clean surface
9. Place the transfer set on the clean towel
10. Verify that twist clamp is closed
11. Loosen the minicap without removing it
12. Hold “Physioneal®” twin bag tubing in dominant hand
13. Remove colored pull ring, being careful not to contaminate the open end
14. While holding the “Physioneal®” twin bag tubing in your dominant hand, remove the minicap from the transfer set and connect the “Physioneal®” twin bag tubing to the transfer set
15. Hang drain bag on drain bracket or on floor on top of clean towel
16. Hang the solution bag on the IV pole, using the hole that is the closest to the injection port so the bag hangs at an angle. This will allow the solution from the upper chamber to mix with the solution in the lower chamber

Drain Procedure

17. Open twist clamp and start the drain; ensure effluent is draining well (10-20min)
18. When drain is completed, close twist clamp and clamp the drain line with a blue clamp

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19. Check that the “Physioneal®” solution from the upper chamber has infused completely into lower chamber. Squeeze lower chamber with both hands to ensure proper mixing
20. Break the seal on the inflow line
21. Release clamp from drain line and flush “Physioneal®” solution through the tubing for 5 seconds
22. Clamp drain line with the blue clamp
23. Ensure inflow line is free of air. Open twist clamp. The “Fill ” will start
24. When fill is completed, close the twist clamp and clamp the inflow line with blue clamp
25. Check integrity of minicap package. Check expiry date of minicap. Open package
26. Sanitize hands
27. Disconnect “Physioneal®” tubing from transfer set. Hold-on to the transfer set
28. Immediately apply minicap to transfer set and secure transfer set in place
29. Check effluent for clarity. Discard if clear. If effluent is cloudy, refer to instructions for peritonitis
30. Don non sterile gloves
31. Discard bags, tubing and non-sterile gloves as per procedure
32. Store the clamps

Note: If the solution has been infused without breaking the seal between the 2 chambers (upper chamber would still have fluid in it): do not break the seal. In this situation, completely drain whatever fluid that has been infuse. Restart the procedure with a new bag of solution

DOCUMENTATION:

1. Patient health record

RELATED POLICIES / LEGISLATION:

1. [Corporate Policies and Procedures - #00014 Hand Hygiene](#)
2. [Corporate Policies and Procedures - #00233 Hand Hygiene Products and Materials](#)
3. [Infection Prevention and Control Policies and Procedures - #00023 Routine Practices](#)

REFERENCES:

1. Appendix 1(page 4): Opening and Mixing Solution (2011) Baxter Presentation for Physioneal Procedure for Use and Practical Tips.
2. Baxter - Physioneal® “A natural Solution for a Natural Membrane” ©2000
3. Baxter - Physioneal “CAPD Exchange Procedure Guide” ©2001

COMMENTS / SIGNIFICANT REVISIONS: N/A

Appendix 1: Opening and Mixing Solution



1. Seal separating chambers is intact



2. Mobilize green clip and wiggle to mix solution



3. Ensure all solution has moved into lower chamber and then hang