

 <p style="text-align: center;">DIVISION OF ADULT INSTITUTIONS</p> <p style="text-align: center;">POLICY AND PROCEDURES</p>	DAI Policy #: 500.31.34	Page 1 of 5
	Original Effective Date: 06/22/15	New Effective Date: 06/22/15
	Supersedes: N/A	Dated: N/A
	Administrator's Approval: Jim Schwochert, Administrator	
	Last Reviewed, No Changes: 11/22/16	
Required Posting or Restricted:		
<input checked="" type="checkbox"/> Inmate <input checked="" type="checkbox"/> All Staff <input type="checkbox"/> Restricted		
Chapter: 500 Health Services		
Subject: Repair of the Peritoneal Dialysis Catheter		

POLICY

The Division of Adult Institutions shall ensure prompt recognition and follow up of potential peritoneal dialysis catheter damage. Prompt recognition decreases the risk of catheter contamination with resulting peritonitis.

REFERENCES

Counts, C.(2008) Core Curriculum for Nephrology Nursing, fifth edition, p793-794.
Dearborn County Hospital (1/18/2012) Peritoneal Dialysis Catheter Repair, Nursing Policy and Procedure AA-55
Gomez, N. (Ed) (2011). Nephrology Nursing Scope and Standards of Practice, Seventh Edition. Pitman, NJ: American Nephrology Nurse's Association
Kidney International (2006) 70, S44-S54. Prevention of infectious complications in Peritoneal Dialysis: best demonstrated practices
Fresenius Medical Care, 2010. Advanced Renal Education Program
DAI Policy 500.31.18 – Continuous Ambulatory Peritoneal Dialysis CAPD Exchange
DAI Policy 500.31.26 – Extension Set Change
DAI Policy 500.31.29 – Infectious Complications

DEFINITIONS, ACRONYMS AND FORMS

DOC – Department of Corrections

DOC-3413A – Peritoneal Dialysis Kardex

DOC-3021A – Dialysis Progress Notes

DOC-3023 – Prescriber's Orders

DOC-3023W – Prescriber's Orders (Standard Orders – Peritoneal Dialysis)

Extension set – A removable piece that attaches to the peritoneal dialysis catheter that allows the patient to connect to dialysis supplies

PD – Peritoneal Dialysis

Peritoneal dialysis catheter – A surgically implanted tube that allows for access to the peritoneal cavity

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POC-0078 – How to take a Sterile Peritoneal Dialysate Sample

PROCEDURE

I. **General Guidelines**

- A. Prior to independently performing PD, all inmate patients shall be instructed on the proper procedure to take when there is potential damage or risk to the peritoneal dialysis catheter.
- B. Some problems and risk factors include:
 - 1. Defective catheter.
 - 2. Catheter is accidentally cut or punctured.
 - 3. Constant tension or bending at the adaptor site resulting in a crack.
 - 4. Use of cleaning agents, disinfectants, or antibiotic preparations that cause catheter deterioration.
 - 5. Use of wrong size adaptor.
 - 6. Use of toothed hemostat to clamp catheter.
- C. Signs of catheter damage may include:
 - 1. Wear line on catheter.
 - 2. Visible crack(s) in catheter.
 - 3. Catheter becomes brittle, crumbles, or breaks off completely.
 - 4. Distal segment becomes stretched and loses elasticity.
 - 5. Dialysate leak from external catheter segment.
- D. Inmate patients shall evaluate the specific circumstances of a catheter event in order to determine the appropriate response.
- E. If determined that a catheter repair may be necessary, the inmate patient shall proceed with the following steps. Steps include:
 - 1. Do not proceed with dialysis.
 - 2. Close clamps on extension set and catheter.
 - 3. Cover damaged area with sterile gauze to prevent further contamination.
 - 4. Apply blue scissors clamp to proximal end of catheter.
 - 5. Promptly contact Security staff to notify nursing staff.
 - 6. HSU nursing staff and/or Security to notify the PD nurse on-call.
- F. Each episode of catheter and extension set damage shall be triaged and/or assessed by a trained Dialysis Nurse.
- G. The dialysis nurse shall refer to:
 - 1. DAI Policy 500.31.29 upon evaluating the risk of contamination.
 - 2. DAI Policy 500.31.26 if a new extension set is necessary.
- H. Obtain a sterile 30mL dialysate sample per POC- 0078 to send to lab for:
 - 1. Cell count with differential.
 - 2. Gram stain.
 - 3. Culture and Sensitivity.

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- I. Peritoneal catheters shall be repaired per the following steps:
 1. Close all doors, shut off any fans, and apply a mask to self and inmate patient.
 2. Assess damaged area and make sure there is at least one inch of catheter available from inmate patient exit site. If at least one inch of catheter is not available, consultation with the access surgeon shall be necessary. Ensure catheter clamps are closed.
 3. Gather supplies:
 - a. Two packs sterile gloves.
 - b. Blue scissors clamp.
 - c. Antimicrobial agent.
 - d. Sterile suture removal kit (sterile scissors).
 - e. Stay-safe luer lock extension set.
 - f. Beta cap adaptor.
 - g. Four packages sterile 4x4 gauze.
 - h. Sterile drape.
 - i. Stay-safe cap.
 - j. CAPD set of warmed dialysate 1.5%.
 4. Apply clean gloves and place a blue scissors clamp proximal to exit site.
 5. Prepare remaining supplies.
 6. Saturate two sets of 4x4s with antimicrobial agent.
 7. Perform hand hygiene. Apply sterile gloves.
 8. Use a dry, sterile 4x4 to pick up catheter; then take antimicrobial soaked 4x4 in each hand and scrub damaged area based on manufacturers recommendations for contact time.
 9. Use a sterile scissors to make a straight cut proximal to damaged catheter area.
 10. Use another dry, sterile 4x4 to pick up beta cap adaptor and thread adapter into tubing up to lip of adapter.
 11. Attach extension set, close white clamp and apply stay-safe cap.
 12. Replace exit site dressing and anchor catheter to inmate patient.
 13. Complete a CAPD manual exchange per DAI Policy 500.31.18 to assess integrity and function of the repaired catheter and new extension set.
- J. Initiate Intra-Peritoneal antibiotics and Heparin as indicated per DOC-3023W – Prescriber’s Orders (Standard Orders – Peritoneal Dialysis) for suspected Peritonitis. Consult with the Nephrology Provider, as necessary.
- K. Document assessments and interventions performed in a DOC-3021A-Dialysis Progress Note. Update DOC-3413A – Peritoneal Dialysis Kardex
- L. Communicate health needs and treatment plans to other Dialysis staff and/or Health Services staff for follow up care.

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Bureau of Health Services: _____ **Date Signed:** _____
James Greer, Director

_____ **Date Signed:** _____
Ryan Holzmacher, MD, Medical Director

_____ **Date Signed:** _____
Mary Muse, Nursing Director

Administrator's Approval: _____ **Date Signed:** _____
Jim Schwochert, Administrator

DIVISION OF ADULT INSTITUTIONS FACILITY IMPLEMENTATION PROCEDURES

Facility: Name		
Original Effective Date:	DAI Policy Number: 500.31.34	Page 5 of 5
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Chapter: 500 Health Services		
Subject: Repair of the Peritoneal Dialysis Catheter		
Will Implement <input type="checkbox"/> As written <input type="checkbox"/> With below procedures for facility implementation		
Warden's/Center Superintendent's Approval:		

REFERENCES**DEFINITIONS, ACRONYMS, AND FORMS****FACILITY PROCEDURE**

I.

A.

B.

1.

2.

a.

b.

c.

3.

C.

II.

III.

RESPONSIBILITY

I. Staff

II. Inmate

III. Other