Peritoneal Dialysis (PD) – Intraperitoneal Cephazolin Administration  
(1 gram)

1. Purpose

To ensure the administration of intraperitoneal Cephazolin is performed according to best practice guidelines reducing the risk of infection and ensuring patient safety.

2. Process

2.1 Devices

2.1.1 Equipment

- Trolley
- Portable IV pole
- Water for injection – 10 ml ampoule
- Alcohol swabs x 2
- Blue clamp

2.1.2 Key parts

- Cephazolin – 1 gram vial
- Drawing-up needle (18G)
- 21 G needle
- 10 ml syringe
- PD fluid (Freeline Solo bag)

2.1.3 Key site

- Rubber bung on Cephazolin vial
- Rubber bung on PD fluid
- Abdominal PD catheter

2.2 Recommended Intraperitoneal Dose for treatment of Peritonitis

- 1 gram is for loading dose only
- Subsequent daily dose is 1 gram/day divided into 250 mg/bag, for 14-21 days

Cross References

- Medication Handling in NSW Public Health Facilities; NSW Health PD2013_043
- Peritoneal Dialysis – Peritonitis Treatment Protocol; Renal Department Protocol
- Peritoneal Dialysis – Antibiotic Administration Guidelines; Renal Department Protocol
- Continuous Ambulatory Peritoneal Dialysis (CAPD) Freeline Solo Exchange Procedure; Renal Department Protocol
2.3 Procedure
1. Warm the selected PD fluid (freeline solo bag) on the warmer
   a. Select appropriate PD fluid strength by conducting a fluid assessment on patient 30 minutes prior to CAPD procedure
   b. Note: PD fluid takes 30 minutes to warm.
2. Ensure the “5 Rights” of Principles for Safe Medication Administration is observed with second person check
3. Perform hand hygiene
4. Identify and gather equipment and key parts for procedure
5. Check expiry dates on antibiotic vial, PD fluid and water for injection
6. Clean trolley/work surface with detergent
7. Perform hand hygiene
8. Don gloves
9. Prepare general aseptic field equipment and key parts near the patient’s bedside
10. Use the sharp edge of the blue clamp to open outer pouch of the dialysis bag. DO NOT USE SCISSORS OR KNIVES
11. Place the opened bag on top of the clean trolley and ensure the lines are facing up
12. Recheck the dialysis bag strength, volume, expiry, colour and for leakage
13. Prepare the antibiotics using aseptic technique ensuring all the key parts/sites are protected
   a. Alcohol swab the rubber bung on Cephazolin vial;
   b. Attach drawing up needle to 10 ml syringe;
   c. Open water ampoules and aspirate all content into the 10 ml syringe;
   d. Push needle into the rubber bung on a Cephazolin vial, inject 5 mls of water, invert vial and shake until all powder dissolves then aspirate all content;
   e. Once Cephazolin vial is emptied into the 10 ml syringe, replace drawing-up needle with 21G needle.
14. Administer the antibiotics into the dialysis fluid using aseptic technique ensuring all the key parts/sites are protected
   a. Alcohol swab the rubber bung on dialysis fluid;
   b. Push needle into the centre of the dialysis fluid bung and inject all content.
   Note: For accidental piercing of the bag or the side of the bung, use a new dialysis fluid
15. Administer Cephazolin intraperitoneally through CAPD exchange as per Continuous Ambulatory Peritoneal Dialysis (CAPD) Freeline Solo Exchange Procedure; Renal Department Protocol
   a. Note: Dwell intraperitoneal Cephazolin for 6 hours
16. Wear PPE
17. Discard bag and lines in the clinical waste bin, discard needles in sharps bin
18. Remove gloves and PPE
19. Perform hand hygiene
20. Clean trolley after use and perform hand hygiene
21. Sign and co-sign the medication chart
22. Document the procedure on the CAPD chart and patient notes
23. Handover to the next shift
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<th>3. Network file location/reference, if applicable</th>
<th>St George Hospital Renal Website: <a href="http://stgrenal.org.au/">http://stgrenal.org.au/</a></th>
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**Revision and Approval History**

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<th>Date published</th>
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<tr>
<td>March 2015</td>
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<td>Anna Claire Cuesta PD CNC</td>
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Approved by: The St George Hospital Renal Department - Peritoneal Dialysis Committee  
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