



**NEPHROLOGY PROGRAM
DEPARTMENT POLICIES AND PROCEDURES**

**Home Dialysis - Section 09- Peritoneal Dialysis - HDU 9-17
Process for a CT Peritoneography
No.: 01620 (TOH Standardized Policy Number)**

ISSUED BY:

Home Dialysis Unit / Clinical Practice
Committee

DATE OF APPROVAL:

2017/01

APPROVED BY:

Program Clinical Lead and Division Head

LAST REVIEW/REVISION DATE:

2018/01

CATEGORY:

Medication

IMPLEMENTATION DATE:

2017/01

POLICY AND BACKGROUND STATEMENTS:

- CT Peritoneography is a CT scan of the abdomen with contrast media injected through the PD catheter, to provide information about the location and size of hernias; establish the origin and path of dialysate leak or diagnose encapsulating peritoneal sclerosis
- A physician's order is required for CT Peritoneography
- If the patient has an allergy to contrast, the ordering physician may need to order prophylaxis treatment before the test
- The contrast is supplied as Iopamidol (Isovue) 200mL (370mg/mL) and stored in the radiology department

DEFINITION(S): N/A

ALERTS:

- This procedure can be done by RNs from the Home Dialysis Unit (HDU) at Riverside campus or by RNs on the in-patient nephrology unit (7NW) if patient is admitted to General campus
- Isovue is not radioactive or cytotoxic. However, it may cause mild irritation if skin or eye contact. Personal protective equipment is required when handling Isovue contrast product
- Use latex/nitrile gloves and face shield/safety glasses when dispensing Isovue and discarding Isovue containing fluid

SUPPLIES:

Quantity	Product	Order #
1	60 mL syringe OR 20 mL syringe	140170 140150
2	Alcohol swabs	230660
1	Bottle of Iopamidol (Isovue) 200mL (370mg/mL)	supplied by radiology department
1	18-gauge blunt fill needle	155645
2	Mini-cap	321510
1	Medication label	
1	Warmed PD4 Dianeal 1.5% 2-liter twin bag or 2.5-liter twin bag if ordered	101301
2	Blue clamps	
1	IV pole for infusion of Dianeal	
	Personal protective equipment (latex or nitrile gloves; face shield/safety glasses)	

PROCEDURE:

Section A: Booking the test

1. Nephrologist/delegate orders the test via CPOE
2. Radiologist reviews test request and assigns contrast protocol as indicated
3. Nurse instructs patient to be empty of dialysate prior to arriving for test

Section B: On the day of the test at Riverside Campus

1. Patient will present to Radiology reception. The radiology clerk will verify with CT scan room nurse/ medical radiology technologist the treatment room is available. HDU will be notified that patient has arrived and is ready for IP infusion
2. HDU nurse will bring PD supplies to radiology
3. HDU nurse will verify patient allergy status to contrast medium. If allergy identified inform radiologist and nephrologist
4. The HDU nurse checks the Medical Directive of CT Peritoneography
5. Wash hands, and explains the procedure to the patient
6. Don PPE: gloves and protective face shield/safety glasses
7. Using aseptic technique, the HDU/7NW nurse draws 50mL of Isovue 370 from the bottle and injects it to a 2-liter bag of warm 1.5% Dianeal PD4 dialysate; or if patient's usual fill volume is less than 2 liters, drain the excess volume to the drain bag before injecting Isovue
8. With patient in supine position as per CAPD procedure: drain any effluent from patient and then, then infuses the prepared dialysate with contrast

9. During infusion, patient should turn from side to side, about every 200 ml, to ensure that total surface area of membrane encounters dialysate
10. When the dialysate has infused, close the twist clamp, disconnect the twin bag, and apply a new minicap
11. Report to radiology staff that infusion is complete
12. Radiology staff instructs patient to stay in the waiting room for 20 minutes for possible adverse reactions to contrast agents, then instruct patient to walk around to facilitate distribution of PD fluid throughout the peritoneal cavity and to return to Radiology in 2 hours for CT scan
13. Following the CT scan, the medical radiation technologist will send patient to HDU
14. Prior to draining and disposing of effluent don PPE (latex or nitrile gloves; face shield/safety glasses)
15. Nephrology nurse drains and disposes effluent as per standard CAPD procedure

Note: For inpatients at General campus, the CT scanning procedure will remain the same except that the test may need to be ordered by the inpatient unit in conjunction with Medical Imaging Department. Coordination for infusion and drain of the PD dialysate with contrast will occur on inpatient unit by 7NW nurses or with HDU support as required

DOCUMENTATION:

1. HDU nurses document the procedure in Nephrocare. 7NW nurses document the procedure in the Interdisciplinary Progress Note of the inpatient chart

RELATED POLICIES / LEGISLATION: N/A

REFERENCES:

1. American Nephrology Nurses Association (ANNA). Core Curriculum for Nephrology Nursing, 5th Ed. 2008
2. Capital Health (2011) department of medicine, nephrology. Peritoneal Dialysis CT Imaging Protocol
3. Southern Alberta Renal Program. (2011). Peritoneal Dialysis Evaluation with CT
4. Peritoneography. Policy 40-04
5. Horizon Health Network (2013). Peritoneography CT Imaging Protocol. SOP No.: PD 6-6.1
6. Safety Data Sheet Isovue 128,200,250,300,370 solutions (2015) (version 2). B-lands Consulting, France

COMMENTS / SIGNIFICANT REVISIONS: N/A