



**NEPHROLOGY PROGRAM
DEPARTMENT POLICIES AND PROCEDURES**

**Home Dialysis - Section 09 - Peritoneal Dialysis - HDU 9-08
PD Adequest Collections - Blood / Dialysate and Urine
No.: 01480 (TOH Standardized Policy Number)**

ISSUED BY: Home Dialysis Unit Clinical Practice Committee	DATE OF APPROVAL: 2011/07
APPROVED BY: Program Clinical Director / Division Head	LAST REVIEW/REVISION DATE: 2017/03
CATEGORY: Peritoneal Dialysis	IMPLEMENTATION DATE: 2011/07

POLICY STATEMENT:

- “PD Adequest” is a tool which:
 - Facilitates optimization of the peritoneal dialysis (PD) prescription
 - Ascertains the Kt/V and creatinine clearance for a specific PD prescription
 - Uses a computer based kinetic model that assesses the agreement between measured and modeled values of urea, creatinine and ultrafiltration

ALERTS:

- The initial Adequest test is performed 2-4 weeks after reaching full PD prescription (fill volume and # exchanges). Earlier testing (2 weeks) is recommended for patients starting PD from Hemodialysis to ensure adequate dialysis
- Adequest tests are repeated
 - 2-4 weeks after a peritoneal dialysis prescription change;
 - Q 6 months; or
 - if patient exhibits any uremic symptoms
- The Adequest test must be rescheduled if there has been any leakage from the collection bag(s).

ADDITIONAL VIDEO RESOURCES

- Adequest Cyclor Set Up with Extraneal:
<https://www.youtube.com/watch?v=IEFE7uDsEJk>

SUPPLIES:

Item	SPD supply #
Container: 24-hour urine collection	270600
3 ml syringe (CAPD)	140510
10ml syringe (CCPD/APD)	140515
18 g blunt fill needle #	155020
24 Hour Adequacy Collection worksheet specific to patients regime e.g. CAPD, CCPD, CCPD tidal	
Adequest Test Results worksheet	
Laboratory requisitions for 24 hr dialysate collection, 24 hr urine collection and blood work	

PROCEDURE:

- Explain procedure to patient
- Provide patient with therapy-specific (CAPD; CCPD) written instructions prior to the test
- Instruct patient to have blood work done the same day as the Adequest collection.
NOTE: If the patient has a scheduled clinic visit within the following 2 weeks include clinic visit bloodwork
- On day of test:
 - Patient will bring the 24hr urine collection and dialysate sample(s) to HDU
 - Confirm that patient has had blood work drawn for urea, creatinine, glucose, albumin
 - Use the relevant 24 Hour Adequacy Collection worksheet as per the patient's treatment prescription to calculate the required sample volume
 - Record the patient's morning weight empty and pt's height in cm
 - Send the 24-hr urine collection to the lab for urea, creatinine and volume.
Write 06:00 am on label and requisition; apply label to specimen container

PROCEDURE for CAPD effluent collection:

1. Weigh each dialysate bag brought in by patient. Document the volume (mls) of each bag on the 24 Hour Adequacy Collection worksheet
2. Calculate 0.01% of the volume of each bag. Withdraw the calculated amount from each bag and transfer the sample into the specimen container. Write 06:00 am on preprinted Adequest labels and requisitions; label the specimen container
3. Enter "Volume in" on worksheet. Volume in is: fill volume x # of exchanges
4. Calculate the total volume for the 24 hr collection and document on Adequest Test Results worksheet in "Volume out" section

PROCEDURE for CCPD effluent collection:

1. Enter "Volume in" on worksheet. Volume in is: fill volume x # of cycles, plus last bag, plus day exchange (if day exchange)
2. Label specimen and requisition; send to lab
3. Calculate the total volume for the 24 hr collection and document on Adequest Test Results worksheet in "Volume out" section

DOCUMENTATION:

1. 24 hr Adequacy Collection worksheet
2. Adequest Test Results worksheet
3. NephroCare Progress Notes phrase titled: 'Adequest Test Collection data' & 'PD Adequacy and PT results'
4. Baxter Adequest Program Data base
5. Addendums:
 - 24hr Adequacy Collection worksheet
 - Adequest test result worksheet

RELATED POLICIES / LEGISLATION: N/A**REFERENCES: N/A**

1. Baxter PD Adequest program:
http://www.baxter.com.sg/healthcare_professionals/products/pdadequest.html

COMMENTS / SIGNIFICANT REVISIONS: N/A