

 <p style="text-align: center;">DIVISION OF ADULT INSTITUTIONS</p> <p style="text-align: center;">POLICY AND PROCEDURES</p>	DAI Policy #: 500.31.03	Page 1 of 5
	Original Effective Date: 08/03/12	New Effective Date: 09/04/12
	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: Obtaining and Processing Blood Tests in Hemodialysis		

POLICY

Staff members shall obtain and process blood tests according to the steps required by the contracted lab and current Hemodialysis recommendations.

REFERENCES

Guidelines for Hemodialysis Adequacy, KDOQI National Kidney Foundation, 2000
The Clinician's Role in the Measurement of Accurate Lab Values, Dialysis & Transplantation, Volume 30, Number 4, April 2001
 Molzahn, A., & Butera, E. (Eds) (2006). Contemporary Nephrology Nursing: Principles and Practice, Second Edition. Pitman, NJ: American Nephrology Nurse's Association.

DEFINITIONS, ACRONYMS AND FORMS

Advanced Care Provider (ACP) – A provider with prescriptive authority.

BUN – Blood urea nitrogen

KDOQI – National Kidney Foundation's Guidelines, Kidney Disease Outcomes Quality Initiative

Medic – Needleless device used with a syringe in place of a needle.

Centrifuge – An apparatus consisting of a compartment spun about a central axis to separate contained materials of different specific gravities or colloidal particles in a liquid.

PPE – Personal Protective Equipment

PROCEDURES**I. General**

- A. All blood tests require an ACP order or protocol order.
- B. Universal precautions and PPE shall always be utilized by dialysis staff when obtaining and processing blood samples.
- C. All dialysis blood samples shall be collected and processed by trained dialysis staff.

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- D. Prior to collecting blood samples, staff shall refer to the contracted laboratory provider's service directory for specimen and requisition requirements. For certain blood tests it is necessary to have the patient prepped appropriately (e.g., fasting for a period of time.)
- E. Transplant serums shall be obtained for patients on the kidney transplant waiting list utilizing the designated tube and mailer materials provided by the UW Hospital Histocompatibility Laboratory.

II. Processing of Blood Samples

- A. Routine labs shall not be completed after the designated courier pick-up time. Services shall be provided at the designated laboratory for urgent or stat labs.
- B. When multiple blood samples are required, refer to the specified laboratory directory for the appropriate draw order. The order is important to prevent any cross contamination of the specimens.
- C. Label the specimen tube appropriately according to the specified laboratory's requirements.
- D. After obtaining each specimen gently invert the tubes 5-10 times, or as otherwise required per lab specifications, prior to placing it in an upright position. Caution must be exercised while inverting the specimen to prevent hemolysis.
- E. Specimens that do not require the use of the centrifuge for processing should be refrigerated within 30 minutes; e.g., lavender tubes.
- F. Specimens that require the centrifuge shall be allowed to clot for at least 30 minutes, but not greater than 60 minutes, prior to processing. The tube shall be maintained in an upright position away from any heat sources, including the dialysis machine or centrifuge.
- G. Specimens shall be centrifuged approximately 15 minutes to allow for the proper separation of whole blood components.
- H. Place specimens requiring refrigeration in the designated refrigerator.
 - 1. The temperature of the refrigerator shall be maintained at 36-46 degrees Fahrenheit (or 2-8 degrees Celsius.)
 - 2. Refrigerator temperature shall be monitored and recorded each working day.
- I. Specimens shall be packaged in the designated specimen container with a freezer pack and kept upright unless indicated otherwise in the service directory.
- J. Vacutainers shall be disposed of after each use in a red sharps container.

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- III.** Blood samples shall be obtained pre-dialysis, unless ordered otherwise by the ACP, with the exception of the post-dialysis BUN.
- A. Collecting blood samples arteriovenous fistula or graft:
1. Shall be obtained utilizing a vacutainer, luer adaptor, and appropriate blood tubes.
 2. Obtain specimens from the arterial needle prior to connecting the arterial blood tubing or flushing the needle.
 3. Verify no saline and/or heparin is in the arterial needle and tubing prior to drawing the sample.
 4. Obtain specimen.
 5. Complete initiation of dialysis.
- B. Venous catheter:
1. Shall be obtained utilizing a vacutainer, luer adaptor, and appropriate blood tubes.
 2. Withdraw 10cc of heparin or saline from the arterial port of the catheter.
 3. Obtain specimens from the port of the catheter.
 4. Complete initiation of dialysis.
- IV. Collecting Blood Samples During or After Dialysis**
- A. Shall be obtained utilizing a medic and a syringe after cleansing the arterial port proximal to the patient with an approved disinfectant.
- B. Samples shall be transferred into the appropriate blood tube.
- C. Post-dialysis BUN shall be obtained utilizing “slow flow sampling technique”.
1. Turn the ultrafiltration and dialysate flow on the dialysis machine to the off position.
 2. Turn the blood pump to 50-100 ml/min.
 3. Cleanse the port with an approved disinfectant. Obtain specimen from the arterial port proximal to the patient on the blood tubing after waiting 15 seconds.
 4. Resume ultrafiltration and dialysis flow, if appropriate.
- V.** Blood specimen results shall be printed to the location designated on the laboratory requisition. Hemodialysis labs shall routinely be printed to the designated Hemodialysis printer. Additional printers may be designated on the requisition.
- A. Critical lab results shall be called to the Hemodialysis clinic. After hours, the designated institution Health Service Unit shall be contacted.
- B. Nephrology providers shall be contacted with lab results per designated guidelines.

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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: 500.31.03	Page 5 of 5
New Effective Date: 00/00/00	Supersedes Number:	Dated:
Chapter: 500 Health Services		
Subject: Obtaining and Processing Blood Tests in Hemodialysis		
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