

TRAINING UPDATE

Lab Location: SGMC and WAH **Date Implemented:** 7.1.2018
Department: Blood Bank **Due Date:** 7.15.2018

DESCRIPTION OF PROCEDURE REVISION

Name of procedure:

Antibody Titration

Description of change(s):

When WAH staff prepare titers to shipment to SGMC, they will need to give the titer to processing to track and send. Old procedure indicated BB staff would send with the courier.

Electronic Document Control System



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Title: Antibody Titration

Owner: LESLIE BARRETT

Status: INWORKS

Doc Effective Date: 27-Jul-2018

Next Review Date:

Non-Technical SOP

Title	Antibody Titration	
Prepared by	Maria Hall	Date: 12/31/2008
Owner	Stephanie Codina	Date: 5/7/2010

Laboratory Approval		
Print Name and Title	Signature	Date
<i>Refer to the electronic signature page for approval and approval dates.</i>		
Local Issue Date:		Local Effective Date:

Review:		
Print Name	Signature	Date

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1. PURPOSE

Antibody titration can provide useful information about the relative amount of antibody present in a serum. A titer is determined by testing serial dilutions of the serum against a selected red cell sample. Titrations are often performed in prenatal studies when an antibody known to cause HDFN is present; the titration result may aid in assessing the need for amniocentesis.

2. SCOPE

This procedure covers the submission of antibody titer samples to Shady Grove Medical Center Blood Bank for testing and the resulting of the antibody titer when testing is complete.

3. RESPONSIBILITY

Blood bank staff members from Washington Adventist Hospital will order the antibody titer testing and refer the patient specimen to the Shady Grove Medical Center for analysis.

4. DEFINITIONS

None

5. PROCEDURE

Step	Action
1	Verify that the specimen meets labeling acceptability requirements outlined in procedure, "Sample Specifications for Blood Bank Testing."

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Step	Action
2	<p>Titer should not be performed unless antibody screen and antibody identification have been performed within the previous 3 days.</p> <ul style="list-style-type: none"> A. Antibody screen is necessary to ensure the antibody is still demonstrating in the test specimen. B. Antibody identification is necessary to confirm the antibody identification and ensure no new antibodies have formed.
3	<p>Order the antibody titer in Sunquest. If more than one antibody is to be titered, one test must be ordered for each antibody specificity.</p> <ul style="list-style-type: none"> A. Access Sunquest function, "Order Entry." B. At the "Lookup By" prompt, click on the dropdown menu and select "Patient ID." C. At the "Value" prompt, type the patient's medical record number and click on the "Search" button. D. Click on the patient for whom you are ordering testing to highlight then press the "Select" button. E. At the "Collect Date" prompt, type in the date on which the specimen was collected and press tab. The letter "T" will default with the current date. F. At the "Collect Time" prompt, type in the time at which the specimen was collected and press tab. G. At the "Received Date" prompt, type in the date on which the specimen was received and press the tab key. You may press only the tab key to default the current date. H. At the "Received Time" prompt, type in the time at which the specimen was received and press the tab key. You may press only the tab key to default the current time. I. At the "Ordering Physician" prompt, type in the number of the patient's physician. This is generally listed at the top of the screen. Alternatively, you can click on the ellipse and search for physician by name. Press tab. J. At the "Order Code" prompt, type "BABT" and tab. K. Click on the "Save" button. <p>The titer order will generate a new accession and a label will print.</p>
4	<p>Aliquot a minimum of 1.5 ml of EDTA plasma from the patient specimen needing the antibody titer testing per aliquotting procedure. Note: If more than one antibody specificity is to be titered, a minimum of 1.5 mL of plasma must be included for each titer to be performed.</p> <ul style="list-style-type: none"> A. Obtain a plastic aliquot tube from the specimen processing area. B. Label the tube with the following. A specimen label may be used. <ul style="list-style-type: none"> a. Patient's full name b. Patient's medical record number c. Specimen number d. Date C. Ensure that the patient's name and medical record number match that on the primary specimen tube. D. Pipette plasma from the primary specimen tube into the labeled aliquot tube.

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Step	Action
	E. Place your tech code on the label to identify yourself as the person who aliquotted the specimen.
5	Complete one "Antibody Titration Form" for each antibody specificity to be titered. Complete the following blanks: A. Patient's full name B. Patient's medical record number C. Date D. Antibody specificity
6	Call the SGMC blood bank to inform them that a titer specimen is being sent to them.
7	Place the specimen in a sealed biohazard bag and give the specimen and completed "Antibody Titration Form(s)" to the processing department for transport to SGMC.
8	SGMC blood bank staff members will perform the titer and enter the results in the LIS.

6. RELATED DOCUMENTS

SOP: Sample Specifications for Blood Bank Testing
Form: Antibody Titration Form (AG.F348)

7. REFERENCES

1. Fung, MK, Eder, AF, Spitalnik, SL, and Westhoff, CM. 2017. Technical Manual of the AABB, 19th ed. AABB Publishing, Bethesda, Maryland.
2. Standards for Blood Banks and Transfusion Services, 2018. AABB, 31st ed. AABB Publishing, Bethesda, Maryland.

8. REVISION HISTORY

Version	Date	Reason for Revision	Revised By	Approved By
		Supersedes SOP SWB.013.000		
000	5/7/2010	Updated owner Section 5: computer process revised to reflect LIS upgrade Section 9: added Addenda	S. Codina	N. Cacciabeve
001	6/26/18	Section 2: Updated scope. Section 5: Added instructions to give to processing for transport to SGMC. Section 6: Added form. Section 7: Updated references. Footer: Version # leading zero's dropped due to new EDCS in use as of 10/7/13.	SCodina	NCacciabeve

9. ADDENDA AND APPENDICES

None

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