AUBURN UNIVERSITY MONTGOMERY
Medical Laboratory Science
Clinical Experience Checklist
Immunohematology

STUDENT:

CLINICAL SITE:

ROTATION DATES:

The following pages contain the concepts/basic skills and tasks/test procedures which are to be completed during the Immunohematology Clinical Experience. These concepts/basic skills and tasks/test procedures have been designated as those in which the student must demonstrate competence to perform as an entry-level medical technologist/clinical laboratory scientist at the completion of clinical experience. Each of these concepts/basic skills and tasks/test procedures is numbered and is correlated with the curriculum objectives for this area. Any additional concepts/skills/tasks/test procedures performed at your clinical site which are not contained in the list can be recorded on the blank form at the back.

As the student progresses through the steps of observation, performance, and becomes competent in the various concepts/skills/tasks/test procedures, please verify the learning process by recording the date and your initials in the appropriate space. **IT IS THE STUDENT'S RESPONSIBILITY TO KEEP THIS FORM AND TO HAVE IT AVAILABLE FOR THE SIGNATURE AND DATE AS THE STAGES OF THE LEARNING PROCESS OCCUR.** Upon completion of the clinical experience, the student is to return this form to the clinical supervisor for final review and comments. The form will then be forwarded to AUM for grade determination.

The Concepts/Basic Skills section contains knowledge which medical technology/clinical laboratory science students have been taught during their course work at AUM and basic skills which will be introduced during clinical experience. These concepts and skills need to be reinforced and used throughout the immunohematology clinical experience. They require ongoing evaluation during the time spent in the Immunohematology Department. Competency will be determined at the end of the clinical experience when, in the professional opinion/judgement of the clinical instructor(s), the concepts and basic skills on this checklist have been completed at an 85% level. An 85% competency level is defined as explaining **each** concept or performing **each** basic skill at an 85% accuracy level. The AUM MLS Faculty considers 85% as that level necessary to perform as an entry-level MLS.

The Tasks/Test Procedure section contains specific functions which the program considers to be the minimal essential functions for an entry- level MLS. The number beside each task/test procedure is the number of times the specific task/test procedure must be completed. The "Required Level of Competency" is the level of accuracy that must be attained with **each** repetition. The student is considered competent when the indicated number of test(s) have been completed at the indicated level of accuracy.

Three levels of achievement have been defined for AUM MLS students during their clinical experience.

Observed The student observes the procedure and/or explains the principle of the procedure, including any required calculations, to the clinical instructor(s).

Performed The student performs the procedure under supervision. At this level the student is integrating the principle of the procedure with the manual skills required for its performance.

Competent The student performs the procedure with a minimum of supervision at the accuracy and skill level expected of an entry-level medical technologist/clinical laboratory scientist.

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Concepts/Basic Skills

Immunohematology Concepts/Basic Skills	Observed	Performed	Required Level of Competency (%)	Competent
1.1 Accurately records/interprets test data.			100	
1.2 Prepares approximate red cell suspensions in saline.			85	
1.4 Grades/records agglutination reactions.			85	
1.5 Grades/records hemolysis.			85	
2.2 Correlates requests with proper patient specimen.			85	
2.3 Demonstrates proper specimen collection/labeling of patient samples.			85	
2.4 Explains protocol for refusal/recollection of inaccurate/improper patient samples.			85	

2.5 Discuss the importance of patient's previous history/record.			85	
3.5 Demonstrates proficiency in re-testing of blood/components when received in transfusion service.			85	
3.6 Discusses the preparation/storage/shelf life of blood components.			85	
3.7 Correlates the effective use of blood components with clinical conditions.			85	
5.3 Demonstrates proper technic in performance of all AHG testing.			85	
5.4 Identifies/uses quality control measures for AHG testing**.**			85	

Immunohematology Concepts/Basic Skills	**Observed**	**Performed**	**Required Level of Competency (%)**	**Competent**
7.9 Interprets ABO grouping test data, and resolves any discrepancies present.			100	
7.10 Applies best principles of transfusion medicine when determining ABO compatibility between donor and recipient.			85	
8. 3 Expresses the Rh antigens in the three commonly used system of nomenclature.			85	

8.6 Applies knowledge of the weak D antigen form to accepted transfusion practice.			85	
8.9 Describes the antibodies of the Rh system, to include immunoglobulin class, reaction patterns, clinical significance.			85	
8.10 Discusses Rh typing procedures, to include methods, available reagents, advantages/disadvantages, and controls to be used.			85	
8.12 Evaluates test data of the Rh system to provide appropriate blood/components for transfusion.			85	
9.2 Outlines the immunoglobulin class, reaction characteristics, ability to produce HDN, unique characteristics for antibodies of each of the blood groups/blood group systems.			85	
10.1 Outlines the accepted procedure for detection of unexpected antibodies in a patient/donor specimen.			85	
10.3 Integrates patient/medical information, transfusion history, clinical diagnosis into solving antibody problems.			85	
10.7 Evaluates test data of patients with antibody(ies) present to provide safe transfusion.			85	
11.2 Names the test procedures which are included in pretransfusion testing.			85	

Immunohematology Concepts/Basic Skills	Observed	Performed	Required Level of Competency (%)	Competent
11.3 Evaluates the suitability of donor/recipient samples used for pretransfusion testing.			85	
11.8 Given special/unusual circumstances of blood transfusion, explains/uses the AABB-accepted protocol for each circumstance**.**			85	
12.4 Outlines the general procedure for the investigation of any suspected complication of transfusion.			85	
13.13 Given patient/infant data, evaluates to determine cause, possible intervention, provision of safe blood products, prevention of sensitization of mother in HDN cases.			85	
17.2 Outlines the components of a system to ensure quality for a transfusion service/reference laboratory.			85	
17.4 Complies with all quality assurance/control measures of a transfusion service/reference laboratory to assure patient safety.			85	
18.2 Demonstrates proper documentation in all testing performed.			85	
18.4 Identifies the uses of computer systems in a blood center/transfusion service.			85	

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Tasks/Test Procedures

Immunohematology Tasks/Test Procedures	Observed	Performed	Required Level of Competence (%)	Competent
3.9 Observes the process of issuing blood and preparing/issuing components for transfusion. **No. 5**				
7.8 Demonstrates proficiency in ABO grouping technics by approved methods. **No. 50**			100	
8.11 Demonstrates proficiency in Rh typing by approved methods. **No. 50**			100	
10.4 Demonstrates proficiency in performance of routine antibody detection/identification technics by accepted procedures. **No. 10**			100	
11.6 Demonstrates proficiency in selection of appropriate blood/component(s) for transfusion. **No. 10**			100	
11.7 Demonstrates proficiency in pretransfusion testing, according to accepted protocol. **No. 10**			85	

12.5 Demonstrates proficiency in the testing procedures of the investigation of transfusion complications. **No. 1**			85	

Immunohematology Tasks/Test Procedures	**Observed**	**Performed**	**Required Level of Competency (%)**	**Competent**
13.7 Performs all testing procedures for the investigation of HDN, according to approved procedures. **No. 3**			85	
13.10 Performs all testing procedures required for determining Rh Immune Globulin candidacy, following approved procedures. **No. 2**			85	

Additional Immunohematology Skills/ Tasks/Test Procedures

Skill/Task/Test Procedure	**Observed**	**Performed**	***Required Level of Competency**	**Competent**

*** As these additional procedures are specific to the individual clinical affiliate, the level of competency required is left to the discretion of the clinical instructor(s).**
Comments/Notes:

Each teaching technologist should sign and initial below.

Signature	Initials

Checklist Review

Hospital Representative: _____ Date: _____

AUM Representative: _____ Date: _____