



Course Description

MLT2807L | Hospital Practicum: Immunohematology | 3.00 credits

A supervised laboratory rotation in a clinical immunohematology facility. This provides the student an opportunity for the practice of skills previously learned and for the acquisition of new procedural skills. The development of interpersonal skills and the transition from student to professional are emphasized. Prerequisites: MLT2525, 2525L; corequisite: MLT2930.

Course Competencies:

Competency 1: The student will demonstrate the ability to apply the guidelines read in the procedure manuals of the laboratory by:

1. Performing ABO group and Rh typing
2. Performing compatibility tests (crossmatches)
3. Performing antibody screening
4. Evaluating the importance of an antibody identification procedure before blood transfusion, in order to avoid transfusion reactions
5. Analyzing the importance of the crossmatching procedure before blood transfusion, in order to avoid transfusion reactions
6. Following the steps in case of an unexpected transfusion reaction

Competency 2: The student will demonstrate knowledge, comprehension and application of safety by:

1. Wearing gloves while performing lab testing
2. Handling biohazard material and samples according to OSHA guidelines
3. Disposing of biohazard waste in the appropriate containers

Competency 3: The student will demonstrate knowledge, comprehension and application of quality assurance by:

1. Performing quality control on reagents
2. Recording temperatures of heating blocks
3. Recording temperatures on refrigerators and freezers

Competency 4: The student will demonstrate knowledge, comprehension and application in Blood Bank inventory by:

1. Knowing the different temperatures for storage, transportation and the expiration dates of the blood components
2. Keeping and organizing the blood and plasma inventory
3. Explaining the applicable use for the different blood components
4. Testing in-coming inventory of blood
5. Utilizing older blood first
6. Handling autologous and designated blood correctly

Learning Outcomes:

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data
- Solve problems using critical and creative thinking and scientific reasoning
- Formulate strategies to locate, evaluate, and apply information
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Create strategies that can be used to fulfill personal, civic, and social responsibilities