



Course Description

MLT2525L | Immunohematology Laboratory | 2.00 credits

Performance of basic blood typing, blood bank assays on prepared specimens, and appropriate quality control procedures. Interpretation of results is included. Prerequisite: MLT1500L; corequisite: MLT2525.

Course Competencies:

Competency 1: The student will demonstrate knowledge of record-keeping and Quality Control in the Blood Bank Laboratory by:

1. Discussing the Blood Bank record-keeping system
2. Describing the retention time of the Blood Bank documents
3. Recording Quality Control results
4. Explaining the importance of daily quality control

Competency 2: The student will demonstrate knowledge and application of routine Blood Bank procedures and the clinical significance of the analysis by:

1. ABO, Rh typing and antibody testing
2. Distinguish between forward, reverse, typical and "atypical" reactions
3. Performing crossmatches and interpret them as compatible or incompatible
4. Discerning consistently the various grades of agglutination reactions, hemolysis, mixed-field reaction and rouleaux

Competency 3: The student will demonstrate knowledge and application of Clinical Considerations in Transfusion Practice by:

1. Determining follow-up testing for transfusion reactions
2. Listing types of transfusion reactions and the steps to be followed in the case of an unexpected transfusion reaction
3. Determining testing for Hemolytic Disease of the Newborn (HDN)

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
- Demonstrate knowledge of ethical thinking and its application to issues in society
- Use computer and emerging technologies effectively