
SECTION HEADING

MDLT 1120: Immunology

Description

Immunology introduces the student to a wide array of clinical laboratory techniques that are based on the concepts studied in immunology. The topics range from the very simple to the very complex procedures that are used in all areas of the clinical laboratory.

Credits

3

Prerequisite

MDLT 1100

Corequisite

None

Topics to be Covered

1. Natural Immunity
2. Lymphoid System
3. Antigens, Antibodies, and Major Histocompatibility Complex
4. Complement system
5. Precipitation reactions
6. Agglutination
7. Labeled immunoassays
8. Hypersensitivity
9. Autoimmunity

Learning Outcomes

1. Describe, define, and evaluate basic principle of immunology as it relates to the natural immune system, lymphatic system, antigens, antibodies, and complement system.
2. Apply principles of safety, quality assurance, and quality control in Immunology.
3. Define hypersensitivity and autoimmune diseases.
4. Evaluate normal and abnormal immunological tests with associated diseases.
5. Demonstrate proficiency in the skills necessary to perform immunological tests, to evaluate the immune system, within stated limits of accuracy.
6. Demonstrate proficiency in the skills necessary to perform blood typing, dilutions, and antibody titers, within stated limits of accuracy.

Credit Details

Lecture: 2

Lab: 1

OJT: 0

MnTC Goal Area(s): None