
SECTION HEADING

MDLT 2120: Hematology II

Description

Hematology II is a continuation of MDLT 1130 (Hematology I). Student will study the disease processes that occur in the red blood cells of the blood with emphasis on anemias. This course also covers the theory and testing of the coagulation aspects of the blood.

Credits

3

Prerequisite

MDLT 1100 and MDLT 1130

Corequisite

None

Topics to be Covered

1. Safety and infection control
2. Specimen collection
3. Microscopy
4. Hematopoiesis with emphasis on erythropoiesis
5. Routine laboratory testing in Hematology
6. Examination of peripheral blood smears
7. Anemias and hemoglobinopathies
8. Mathematical calculations
9. Hematology instrumentation
10. Hemostasis

Learning Outcomes

1. Apply principles of safety, quality assurance, and quality control in Hematology.
2. Describe, define, and evaluate basic principles of hematology and hemostasis.
3. Compare and contrast hematology values under normal and abnormal conditions.
4. Demonstrate proficiency in the skills necessary to perform blood cell counts, and evaluation of blood elements within stated limits of accuracy.
5. Evaluate normal and abnormal red blood cell morphology with associated diseases.
6. Practice teamwork and communication.
7. Recognize normal and abnormal coagulation test results and correlate the data with appropriate pathologic conditions.

Credit Details

Lecture: 2

Lab: 1

OJT: 0

MnTC Goal Area(s): None