SECTION HEADING

MDLT 2110: Clinical Chemistry II

Description

Clinical Chemistry II is a continuation of MDLT 1125 Clinical Chemistry I. Students continue to develop skills in the performance of the chemical analysis of blood. Lectures continue to correlate laboratory results with clinical findings. Content of the course includes renal, acid/base balance, electrolytes, endocrinology & thyroid, gastric & pancreatic function, toxicology, and hormones. Prerequisites:

Credits

2

Prerequisite

MDLT 1100, MDLT 1125 and CHEM 1150

Corequisite

None

Topics to be Covered

1. Renal

2. Acid/base balance

3. Electrolytes

4. Endocrinology & thyroid

5. Gastric & pancreatic function

6. Toxicology

7. Hormones

Learning Outcomes

1. Apply principles of safety, quality assurance and quality control in clinical chemistry.

2. Evaluate specimen acceptability for chemical analysis.

3. Compare and contrast human body chemistry levels under normal and abnormal conditions.

4. Explain, perform, and evaluate clinical chemistry procedures for renal, acid-base balance, endocrinology, toxicology, hormones, gastric, and pancreatic testing.

5. Discuss basic laboratory instrumentation and automation.

6. Perform laboratory calculations as pertains to clinical chemistry.

7. Discuss methodologies for chemistry determinations.

8. Define terminology associated with clinical chemistry topics.

9. Correlate test results with patient conditions in regards to renal, acid-base balance, endocrinology, toxicology, hormones, gastric, and pancreatic diseases.

Credit Details

Lecture: 2

Lab: 0

OJT: 0

MnTC Goal Area(s): None