

Course Competency

MLT 1300L CLIN HEMATOLOGY LAB

Course Description

Manual and automated procedures in hematology. This includes blood cell counts and other basic hematologic procedures in the simulated laboratory and in the clinical setting. Corequisite: MLT 1300.

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate understanding of the principles involved in Safety and quality control procedures used in the laboratory procedures by:</p>	<ol style="list-style-type: none"> 1. Information Literacy 2. Computer / Technology Usage 3. Cultural / Global Perspective 4. Ethical Issues
<ol style="list-style-type: none"> 1. Identifying laboratory safety as described in the OSHA including instructions in standard precautions. 2. Understanding and evaluate appropriate quality control procedures as needed to ensure the accuracy of all reported hematologic test results. 3. Understanding how equipment maintenance, corrective actions and troubleshooting defective equipment affect test results. 	
<p>Competency 2:The student will demonstrate understanding of the origin of blood and blood products and its applications by:</p>	<ol style="list-style-type: none"> 1. Computer / Technology Usage 2. Social Responsibility 3. Communication 4. Numbers / Data 5. Critical thinking
<ol style="list-style-type: none"> 1. Evaluating the process of hematopoiesis 2. Identifying and describing classic morphologic characteristics of maturation for the erythrocytes, leukocytes, and thrombocytes. 3. Interpreting stained peripheral blood and 	

<p>analyzing abnormal smears to identify common anemias and Leukemias.</p>	
<p>Competency 3:The student will an understanding of Hematological applications and instrumentation by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Social Responsibility 3. Critical thinking
<ol style="list-style-type: none"> 1. Recognizing proper specimens for analysis in hematology 2. Explaining the analytical principles and diagnostic utility of hematological laboratory testing. 3. Evaluating laboratory results and correlating clinical data to identify common hematological conditions and diseases. 	

Updated: SPRING TERM 2024