

Course Competency

MLT 1330L CLINICAL COAGULATION LAB

Course Description

Provides a Laboratory application of hemostasis (coagulation), as it relates to the medical laboratory. Presents coagulation laboratory principles with hemostasis diagnostic procedures, interpretation, problem-solving, and correlation of laboratory findings and results in accordance with the disease states.

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate knowledge of the role of platelets in hemostasis by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Testing to identify Platelet adhesion 2. Interpreting laboratory tests to identify platelet aggregation and interpret the values obtained. 3. Identifying the substances released by platelets and assessing the values for the role of platelets in aggregation. 4. Identifying the substances released by platelets and assess their values for the role of platelets in the coagulation cascade. 5. Using relevant laboratory instruments and identifying platelet adhesion 6. Describing platelet aggregation. 7. Identifying the changes in platelets after injury. 8. Identifying the substances released by platelets and their role in aggregation. 9. Identifying the substances released by platelets and their role in the coagulation cascade 	
<p>Competency 2:The student will describe the process and interaction of the factors in the coagulation cascade by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Computer / Technology Usage

<ol style="list-style-type: none"> 1. Performing tests to identify the reactions of intrinsic pathways. 2. Performing lab tests to identify the reactions of extrinsic pathways. 3. Performing lab tests to identify the reactions of the common pathway. 4. Performing the lab test to quantify the amount of fibrinogen present in the patient's sample. 5. Performing lab tests to quantify the amount of fibrinogen degradation products found in the patient's sample 	
<p>Competency 3:The student will demonstrate knowledge of Von - Willebrand's Disease through laboratory tests by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Communication 4. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Performing tests to identify the causative agent for Von - Willebrand's agent 2. Using the patient's history and case study given, perform lab tests to identify the symptoms of Von - Willebrand's factor. 3. Describing the complications that can arise with the different types of Von Willebrand's disease based on lab interpretation of results. 	
<p>Competency 4:The student will demonstrate knowledge of fibrinolysis and hypercoagulable states through all hereditary and acquired factor deficiencies by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Identifying laboratory tests affected by medications like Coumadin and heparin and their interferences. 2. Identifying and describing diseases and or conditions that predispose patients to thrombotic episodes. 3. Identifying the diagnostic laboratory tests associated with DIC (Disseminated Intravascular Coagulation) 4. Identifying the laboratory tests associated 	

with detection and inhibition of fibrinolysis.	
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