

Course Competency

MLT 1330 CLINICAL COAGULATION

Course Description

The coagulation lecture is the didactic portion of the coagulation training. Students in this course are exposed to all the principles and theories of the coagulation mechanism, their application, and the laboratory data used by the physician to evaluate the patient's clinical status. Upon successful completion of this course, students will be knowledgeable in the theoretical concepts of Coagulation and be able to correlate results to arrive at plausible solutions to the patient's condition

Course Competency	Learning Outcomes
<p>Competency 1:The student will demonstrate knowledge of the process of hemostasis by:</p>	<ol style="list-style-type: none"> 1. Critical thinking 2. Ethical Issues 3. Numbers / Data
<ol style="list-style-type: none"> 1. Describing the process of hemostasis. 2. Listing the conditions that can compromise the hemostatic process. 3. Stating the role of the vascular system and platelets in the hemostatic process. 	
<p>Competency 2:The student will name all the factors of the procoagulant system and demonstrate knowledge of their role in coagulation by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking
<ol style="list-style-type: none"> 1. Explaining the process of platelet adhesion and aggregation. 2. Naming all the factors of the pro-coagulant system (generic, common name, and roman numeral designation) 3. Explaining the process and interaction of the factors in the coagulation cascade (Intrinsic, Extrinsic, and Common Pathways). 4. Identifying factors and the significance of the factors as related to laboratory data in the intrinsic and extrinsic system 	

<p>Competency 3:The student will demonstrate knowledge of all the hereditary and acquired factor deficiencies by:</p>	<ol style="list-style-type: none"> 1. Numbers / Data 2. Critical thinking 3. Social Responsibility 4. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Describing Hemophilia A and B with cause, symptoms, complications, and treatments. 2. Describing all of the hereditary factor deficiencies with cause, symptoms, complications, and treatments. 3. Describing the acquired and hereditary platelet disorders with causes, symptoms, diagnosis, complications, and treatments. 4. Explaining the relationship between the Von-Willebrand molecule and Factor VIII. 5. Describing Von-Willebrand's disease with cause, symptoms, complications, and treatments. 6. Describing the laboratory tests associated with these deficiencies 	
<p>Competency 4:The student will demonstrate knowledge of the hypercoagulable state and fibrinolysis by:</p>	<ol style="list-style-type: none"> 1. Critical thinking 2. Numbers / Data 3. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Describing the hypercoagulable state with causes, symptoms, and treatments of choice. 2. Explaining fibrinolysis and the fibrinolytic process. 3. Describing the condition known as Disseminated Intravascular Coagulation (DIC) with symptoms, primary causative agents, complications, and treatments of choice. 4. Giving a description of the patient's condition and laboratory results correlate the disease and/or condition with the appropriate testing and expected results. 5. Integrating specific aspects of natural and acquired inhibition with the coagulation process 	

Updated: FALL TERM 2022