

Hematology Module Goals - Revised 2018

Module Goal	With respect to the following systems/processes	School of Medicine Sub-competency	Disciplines
A. Recognize the normal structures and explain the function of the hematolymphoid system.	Blood Lymphatics Bone marrow Primary and secondary hemostasis	2.1.1 Demonstrate knowledge of the normal structure, metabolism, and function of the molecules that compose the human body. 2.1.2 Demonstrate knowledge of normal cellular structure and function of the human body. 2.1.4 Demonstrate knowledge of normal structure and function of human organ systems. 2.1.5 Demonstrate knowledge of the mechanisms that maintain homeostasis.	Biochemistry Pathology Histology Genetics Anatomy Physiology
B. Construct a framework for understanding common diseases and disorders of the hematolymphoid system that incorporates epidemiology, pathogenesis, and pathophysiology.	Anemia Heme synthesis and degradation White blood cell disorders Arterial and venous thrombotic disorders Primary and secondary hemostasis	1.7.1 Demonstrate an understanding of economic factors that impact health. 1.7.5 Demonstrate an understanding of environmental factors that impact health. 1.7.6 Demonstrate an understanding of how lifestyle impacts health. 2.6.1 List the epidemiologic factors that place a person or population at risk for a common condition or disorder. 2.6.2 List the epidemiologic factors that affect transmission or development of a common condition or disorder. 2.2.1 Demonstrate knowledge of the abnormal structure, metabolism, and function of the molecules that compose the human body. 2.2.2 Demonstrate knowledge of abnormal cellular structure and function of the human body. 2.2.4 Demonstrate knowledge of abnormal structure and function of human organ systems.	Adult health Pathology Child Health Histology Biochemistry Genetics Physiology

		2.2.5 Demonstrate knowledge of the mechanisms that disrupt homeostasis.	
C. Synthesize biomedical information including clinical and laboratory data in order to diagnose common diseases and disorders of the hematolymphoid system.	Anemia Porphyria Myeloproliferative neoplasms Pancytopenia Thrombocytopenia Coagulopathy Lymphoma Leukemia Splenomegaly Plasma cell neoplasms Leukocytosis Leukopenia	2.3.1 Given a common condition or disorder, list the symptoms a patient might experience. 2.3.2 Given a common condition or disorder, list the findings that might be identified on physical exam. 2.3.3 Given a common condition or disorder, list the findings that might be identified on laboratory analysis. 3.4 Perform basic interpretation of commonly used diagnostic tests. 3.6.2 Given a patient with a particular chief complaint, medical history, and physical exam findings, list an appropriate differential diagnosis. 3.6.3 Given a patient whose history and physical exam lead to particular differential diagnosis, list the initial studies that should be ordered, including laboratory, radiological and other studies or procedures. 3.6.5 Utilize the information gained by history, physical exam, laboratory tests, radiology tests, and other studies or procedures to determine an appropriate diagnosis.	Adult health Pathology Child health Biochemistry Genetics Epidemiology Physiology
D. Employ prevention and treatment strategies for common diseases and disorders of the hematolymphoid system.	Antithrombotics • Mechanism of action • Clinical indications • Adverse effects Cancer chemotherapeutics • Mechanism of action • Clinical indications • Adverse effects	2.6.3 List the strategies to control and prevent a common condition or disorder. 2.4.1 Demonstrate knowledge of basic pharmacologic principles. 2.4.2 List the routine medications that might be used to manage a common condition or disorder.	Pharmacology Adult health Child health
E. Explore the impact of molecular and genetic advances in relation to the diagnosis,		2.5.2 Describe the role and importance of clinical and translational research in the care of patients.	Evidence Based Medicine Genetics

prognosis, and targeted therapy for common diseases and disorders of the hematolymphoid system.			Pathology Pharmacology
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