

Form and Function Module Goals - Revised 2019

Module Goals	With respect to the following systems/processes/disorders	School of Medicine Sub-competency	Disciplines
F&F.A Recognize the normal structures and explain the functions of the dermatologic and musculoskeletal systems.	Normal gross anatomical relationships on dissection, radiologic imaging, and cross sections The developmental stages of the dermatologic and musculoskeletal systems The impact of common malformations in abnormal development and disorders of the dermatologic and musculoskeletal systems	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 2.1.3 Demonstrate knowledge of normal structure and function of human organs. 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	Anatomy Embryology* Biochemistry Histology Genetics Physiology Radiology Pathology
F&F.B Construct a framework for understanding common diseases and disorders of the dermatologic and musculoskeletal systems that incorporates epidemiology, pathogenesis, and pathophysiology.	Benign Musculoskeletal Disorders Benign Dermatologic Disorders Rheumatologic Disorders Dermatologic Malignancies Musculoskeletal Malignancies Dermatologic Disorders of childhood Musculoskeletal Disorders of childhood	1.7.1 Demonstrate an understanding of economic factors that impact health 1.7.2 Demonstrate an understanding of psychosocial factors that impact health 1.7.3 Demonstrate an understanding of cultural 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 2.2.1 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. 2.2.5 Demonstrate knowledge of the mechanisms that disrupt homeostasis 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.	Anatomy Pathology Physiology Genetics Child Health Adult Medicine Microbiology Epidemiology Evidence-Based Medicine

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F&F.C Synthesize biomedical information including history, physical examination, mental status examination, laboratory, and imaging data to diagnose common diseases and disorders of the dermatologic and musculoskeletal system.	Application of biomedical data to clinical reasoning and clinical problem solving Correlations between form and function of structures and the following conditions/disorders of the dermatologic and musculoskeletal disease: Benign musculoskeletal Disorders Benign Dermatologic Disorders Rheumatologic Disorders Dermatologic Malignancies Musculoskeletal Malignancies Dermatologic Disorders of childhood Musculoskeletal Disorders of childhood	2.2.3 Demonstrate knowledge of abnormal structure and function of human organs. 2.2.4 Demonstrate knowledge of abnormal structure and function of human organ systems. 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. 2.3.4 Given a common condition or disorder, list the findings that might be identified on imaging studies. 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	Anatomy Embryology* Microbiology Adult Health Pathology Epidemiology Child Health Radiology Biochemistry Genetics Physiology Evidence-Based Medicine Clinical Skills
F&F.D Identify and employ prevention and treatment strategies for common diseases and disorders of the dermatologic and musculoskeletal system.	Prevention and treatment strategies for the diseases listed above including nonpharmacologic as well as pharmacological agents, their associated mechanisms of action, clinical indications and adverse effects.	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 2.6.3 List the strategies to control and prevent a common condition or disorder	Pharmacology Adult Health Child health
F&F.E Develop foundational skills in examining and performing procedures on	Anatomical basis for certain clinical procedures Anatomical basis for the inherent risks of procedures	3.3.1 Demonstrate an understanding of the indications, contraindications, and potential adverse outcomes for each of the listed procedures.	Anatomy Clinical Skills

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patients with musculoskeletal and dermatologic disorders.	with regard to vulnerable structures and relationships Manual dexterity through the practice of dissection skills	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.	
F&F.F Develop effective professional communication and team collaboration.	Effective team communication during laboratory dissection, group assignments, and peer teaching experiences Honesty and integrity in educational and professional interactions Responsible execution of duties and cooperation during team dissection, group assignments, and peer teaching	3.9.1 Demonstrate an understanding of the HIPAA rules on patient privacy. 3.9.3 Demonstrate an understanding of the importance of each of the process elements of effective and appropriate communication of medical information to patients, patient family members, other physicians, and interprofessional team members. 3.9.4 Given a specific clinical situation, demonstrate effective and appropriate communication of medical information to patients, patient family members, other physicians, interdisciplinary team members.	Anatomy Ethics Clinical Skills