

A&D Module Goals – Revised 2019

Module Objective	Long SOM Program Objective	Sub Competency	Core Competency
A&D.A. Evaluate the molecular and cellular processes that form the basis of immune responses (including the normal processes in the development, structure, production, and function of cells, tissues, and organs of the immune system) and analyze the mechanisms leading to immune cell differentiation, activation, and regulation (including the function of these cells in both innate and adaptive immune responses).	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 Demonstrate knowledge of normal structure and function of the human body.	2 Knowledge
A&D.B. Assess the role of the immune system in maintaining health including host defense mechanisms, principles of immunologic protection, and age-related effects.	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.	2.1 Demonstrate knowledge of normal structure and function of the human body.	2 Knowledge
A&D.C. Assess the role of the immune system in contributing to disease including abnormal processes related to autoimmunity, immunodeficiency, hypersensitivity, and transplant rejection.	2.2.4 Demonstrate knowledge of abnormal structure and function of human organ systems.	2.2 Demonstrate knowledge of the pathogenesis and pathophysiology of disease and disorders.	2 Knowledge

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A&D.D Apply the principles of microbial structure, taxonomy, and physiology (including metabolism, growth, and regulation), for the classification and identification of infectious agents and the diseases they cause, and compare and contrast the mechanisms by which infectious agents cause disease (including virulence factors, pathogenic mechanisms, immune evasion mechanisms, and host-pathogen interactions).	2.2.5 Demonstrate knowledge of the mechanisms that disrupt homeostasis.	2.2 Demonstrate knowledge of the pathogenesis and pathophysiology of disease and disorders.	2 Knowledge
A&D.E. Interpret immunologic and non-immunologic diagnostic test data in the context of clinical cases, informed by a knowledge of the biological basis of the tests, for monitoring the immune response as well as identifying infectious agents.	3.4 Perform basic interpretation of commonly used diagnostic tests. 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. 2.3 Demonstrate knowledge of the clinical manifestations of common conditions and disorders.	3 Skill 2 Knowledge
A&D.F. Formulate a differential diagnosis for common infectious diseases based on the clinical presentation and microbiological laboratory findings.	3.6.5 Utilize the information gained by history, physical exam, laboratory tests, radiology tests, other studies or procedures to determine an appropriate diagnosis.	3.6 Demonstrate the skills of clinical reasoning and clinical problem solving.	3 Skill
A&D.G. Predict which populations are at risk for specific diseases based on knowledge of the epidemiology and transmission of specific infectious agents.	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.	2.6 Demonstrate knowledge of the epidemiology of common conditions and disorders.	2 Knowledge

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A&D.H Analyze the merits of different pharmacotherapeutic agents, including immunomodulators and antimicrobials, for the most appropriate selection informed by knowledge of the administration, mechanism of action, adverse effects, and mechanisms of antimicrobial resistance.	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.	2.4 Demonstrate knowledge of the pharmacotherapeutic modalities for common conditions and disorders.	2 Knowledge
A&D.I. Apply knowledge of the fundamental sciences to the interpretation of clinical problems, addressing the etiology, pathogenesis, and manifestations of human health and disease.	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. 2.2.3 Demonstrate knowledge of abnormal structure and function of human organs. 3.6.3 Given a patient whose history and physical exam lead to a particular differential diagnosis, list the initial studies that should be ordered, including laboratory, radiological, and other studies or procedures. 3.6.4 Demonstrate the ability to recognize conditions requiring immediate intervention from those that do not, and initiate care. 3.6.5 Utilize the information gained by history, physical exam, laboratory tests, radiology tests, other studies or procedures, and biomedical information to determine an appropriate diagnosis.	2.2 Demonstrate knowledge of the pathogenesis and pathophysiology of disease and disorders. 3.6 Demonstrate the skills of clinical reasoning and clinical problem solving for common conditions and disorders.	2 Knowledge 3 Skill

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A&D.J. Distinguish the biological basis among interventions employed to prevent infectious diseases including infection control measures, prophylaxis, and vaccines.	2.6.3 List the strategies used to control and prevent a common condition or disorder.	2.6 Demonstrate knowledge of the epidemiology of common conditions and disorders.	2 Knowledge
A&D.K Synthesize and summarize biomedical information in oral and written forms and demonstrate the fundamentals of oral presentation and clinical reasoning skills.	1.3.3 Behave in a manner indicative of respect for human dignity. 1.5.2 Behave in a manner consistent with the institutional and professional codes of conduct.	1.3 Demonstrate Respect for human dignity. 1.5 Demonstrate honesty and integrity in educational and professional interactions.	1 Altruism 1 Altruism
A&D.L. Contribute and learn in a team or group environment and demonstrate respectful communication with interdisciplinary colleagues.	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.	3.9 Demonstrate effective and appropriate communication of medical information, both in writing and verbally.	3 Skill