OBJECTIVES

HOST DEFENSES AND INFECTIOUS DISEASES COURSE (HDID)

Upon completion of the Host Defenses and Infectious Diseases Course, students will be able to:

ALTRUISM

➢ Demonstrate honesty and integrity in all professional interactions with patients’ families, colleagues, and others evidenced by: (1) student to student and student to faculty interactions in small groups, (2) student questioning of faculty in lecture format, (3) student questioning of patients in Clinical Correlate sessions, and (4), taking examinations and being a responsible, active participant in the school's Honor Code (i.e. including turning in a peer for cheating if necessary).

➢ Demonstrate a commitment to continuously improve upon their knowledge and abilities

KNOWLEDGE

➢ Demonstrate an understanding of the structure, function, and etiology of the immune system.

➢ Demonstrate an understanding of the emerging disciplines of genomics, proteomics, and bioinformatics and their current application in characterization the response of cells to infectious agents and that the application of these technologies will lead to the development of new vaccines and therapies against pathogenic microorganisms.

➢ Demonstrate an introductory understanding of the scientific principles underlying laboratory diagnosis of host immune defense status, the presence of microbial agents, and antibiotic resistance and

➢ Demonstrate the ability to critically evaluate the limitations of diagnostic methodologies for diagnosing immune diseases, infectious diseases, and antibiotic resistance.

➢ Demonstrate an understanding of the role of behavior in the prevention, treatment, and prognosis of infectious diseases (e.g., behavioral risk factors for HIV, the importance of conscientious antibiotic therapy in treating tuberculosis).

➢ Demonstrate an understanding of the basic principles of pharmacology and therapeutics, including pharmacokinetics, problem solving, biotransformation, etc., and the application of these principles to therapeutic decisions in the treatment of infectious diseases and immune disorders.
Demonstrate an understanding of how to critically analyze and evaluate new scientific information that applies to infectious diseases and diseases of the immune system by discussing recent scientific articles in small group sessions.

Demonstrate an introductory understanding of the pertinent aspects of a focused medical history relevant to immunological and infectious diseases.

Demonstrate an introductory understanding of selected physical findings associated with immunological and infectious diseases presented in lectures and small group clinical case presentations.

Demonstrate an introductory understanding of certain diagnostic procedures (e.g. interpretation of Gram stains) presented in laboratories, lectures, and small group clinical sessions.

Demonstrate an introductory understanding of the common laboratory, roentgenologic and pathologic manifestations of immunological and infectious diseases.

Demonstrate an understanding of basic clinical management strategies introduced in some lecture and small group clinical case presentations (e.g. diagnosis and treatment of skin and soft tissue infections).

Demonstrate an understanding of some signs and symptoms of selected acute life threatening events (e.g. meningitis) introduced in some lecture and small group clinical case presentations.

Demonstrate an understanding of some of the initial interventions in the management of critical care situations (e.g. meningitis, endocarditis) as introduced in some lecture and small group clinical case presentations.

Demonstrate an understanding of the properties of non-narcotic analgesic drugs introduced in the lecture on anti-inflammatory agents.

**SKILLS**

Demonstrate the ability to communicate effectively in small group interactions with peers and faculty.

**DUTIFUL**

Demonstrate an understanding of basic epidemiological terms and methods and the use of epidemiological tools in outbreak investigations.
➢ Demonstrate an understanding of some disease risk factors relevant to immunological and infectious diseases as introduced in some lecture and small group clinical case presentations (e.g. HIV risk factors).

➢ Demonstrate the ability to access and utilize bioinformatic material through the utilization of: (1) the school's internet website, MedScope, and (2) internet links to useful databases and websites in the preparation of Clinical Conference presentations