TRMD 6170 Immunology

Professor: Nirbhay Kumar, PhD

Credits: 3

Semester(s) Offered: Fall

Course Description:

Designed for students of medicine and allied health fields with the aim of providing information necessary for understanding the immune system. Following a comprehensive consideration of both cellular and humoral immunity and the complement system, attention is given to the role of the immune system in resistance to infection and the pathogenesis of disease.
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Learning Objectives:

1. Describe the cellular and molecular elements of the immune system including lymphoid cells and organs, antibody structure and function, antigens, and the complement system.

2. Describe the cellular interactions which are required for immune recognition, regulation of immune responses and effector function, with special emphasis on the role of cytokines in immunity and immunopathogenesis.

3. Describe the mechanisms of hypersensitivity reactions, autoimmunity, transplant rejection, immunity to tumors, immunity to viruses and parasites, and immunopathogenesis of HIV/AIDS.