

V. Microbial Diseases (Session11)

E. The Cardiovascular and Lymphatic Systems

a. General Information

- 1) Anatomy & Physiology
- 2) Immunity
- 3) Normal flora

b. Bacterial Diseases

- 1) Septicemia:
 - Staphylococcus aureus**
 - Streptococcus* sp*
 - Gram (-) rods** (*E. coli*)
- 2) Puerperal Sepsis (Childbirth fever):
 - Streptococcus pyogenes**
- 3) Rheumatic Fever:
 - Streptococcus pyogenes**
- 4) Endocarditis:
 - Staphylococcus* & *Streptococcus* sp.
- 5) Plague:
 - Yersinia pestis**
- 6) Miscellaneous:
 - Brucellosis: *Brucella abortus*
 - Tularemia: *Francisella tularensis*

c. Viral Diseases

- 1) Mononucleosis:
 - Epstein-Barr Virus*
- 2) Miscellaneous:
 - Myocarditis: Coxsackievirus
 - Yellow Fever: Arbovirus
 - Tick fever: Togavirus
 - Dengue Fever: Arbovirus
 - Ebola: Filovirus
 - Hantavirus: Bunyavirus
 - Lassa Fever: Arenavirus

d. Fungal Diseases:

- 1) Histoplasmosis:
 - Histoplasma capsulatum*

e. Protozoal Diseases:

- 1) Malaria: **Plasmodium* sp.

f. HIV Disease and AIDS

- 1) The agent:
 - Biology of Human Immunodeficiency Virus
 - Epidemiology and transmission
- 2) The disease:
 - Pathogenesis
 - Disease progression and categorization
 - Diagnosis and treatment
- 3) Complications of immunodeficiency
 - Pneumocystis carinii**
 - Toxoplasma gondii*
 - Cytomegalovirus*
 - Mycobacterial infections*
 - Candida albicans*
 - Cryptococcus neoformans*
 - Salmonella* sp.
 - Lymphomas
 - Kaposi's sarcoma