Microbiology

Presentation guide

CC = Statement of the competence for a core competence
E = Elements of the competence for a specific statement of competence
P = Performance criteria for competency; associated with a specific element of the competence

Core Competence CC.5

Explain the principles of microbiology as they pertain to respiratory therapy

E.1 Utilize terminology associated with the mechanisms of infectious diseases

P1.1 Define the following terms: host, infectious disease, colonization, microflora, virulence, pathogen and saprophyte
P1.2 Describe the concept of host-microorganism interaction

E.2 Compare agents of infectious diseases

P2.1 Describe the structural characteristics and mechanisms of reproduction for viruses, bacteria, rickettsiae, chlamydiae, fungi and parasites
P2.2 Differentiate modes of transmission
P2.3 Explain the mechanism of infectious diseases using incidence, portal of entry, source of infection, symptomatology, disease source, site of infection, agent and host characteristics

E.3 Explain the mechanisms of infectious diseases

P3.1 Differentiate between incidence and prevalence and among endemic, epidemic and pandemic
P3.2 Describe the stages of an infectious disease
P3.3 Identify the systemic manifestations of infectious disease
P3.4 Describe the mechanisms and significance of antimicrobial and antiviral drug resistance
P3.5 Explain the actions of intravenous immunoglobulin and cytokines in treatment of infectious diseases