
SECTION HEADING

SURG 1110: Surgical Microbiology

Description

Surgical Microbiology will enable students to prevent the spread of disease and promote wound healing. Students will study the structure and function of microorganisms, pathogenic microorganisms and their diseases along with the methods of transmission. The concept of standard precautions will be explored. Various methods of sterilization and disinfection will be discussed. The student will study wound healing process in conjunction with the body's defense against disease.

Credits

2

Prerequisite

None

Corequisite

None

Topics to be Covered

1. Introduction to Microbiology, cell structure, types, and functions of microorganisms
2. Microscopes-staining, media, and nomenclature
3. Common causative agents
4. Immunology
5. Process of infection
6. Wound healing process

Learning Outcomes

1. Discuss the impact of microbiology concerning the correlation of the practice of sterile technique and infection control in the OR.
2. Identify the name and function of various parts of the compound microscope.
3. Compare and contrast the structure and characteristics of different microorganisms
4. Analyze the various immune responses that occur in the body as defenses against invasion by pathogens.
5. Describe the infectious process as it relates to the surgical practice
6. Discuss the historical background of microbiology.

Credit Details

Lecture: 2

Lab: 0

OJT: 0

MnTC Goal Area(s): None