

BPH 367 : Pharmacotherapy of antimicrobial agents

Antimicrobials are a large group of diverse structures with myriad mechanisms of actions against bacteria, viruses, fungi, and parasites. This course will introduce the student to general classes of antimicrobial drugs. The student will understand how the biological activities will be derived from their chemical structures and physicochemical properties. Pharmacological principles of these classes will be covered afterwards, such as pharmacokinetics, mechanism of action, patterns of kill, adverse effects and mechanisms of resistance. The concept of antimicrobial stewardship will be introduced to the student to emphasize its goals; to enhance patient health outcomes, reduce resistance to antimicrobial agents, and to decrease unnecessary costs.

Credits 3

Prerequisite Courses

MIC 354

Corequisites

None