

Title of Course - Antimicrobial Stewardship

Course Code: NPIAS-SEC-004

Course objective: It will sensitize them in infection prevention with knowledge of antibiotic resistance and challenges for antimicrobial developments.

Syllabi of Course:

Antimicrobials

6 Hrs.

Antibiotics, Antibiotic susceptibility, antibiotic resistance and breakpoints, Methods for determining antibiotic susceptibility

Antibiotic Resistance

6 Hrs.

Introduction, Factors that contribute to antibiotic resistance, Bacterial resistance mechanisms and the antibiotic classes each affects

Consequences of Antibiotic Resistance

6 Hrs.

Clinical implications of antibiotic resistance for *Staphylococcus aureus*, *Streptococcus pneumoniae* and gram-negative organisms

War against Microbial World

6 Hrs.

Effects of antibiotic use, Antibiotic stewardship, Challenges, Opportunities and Barrier

Choice of Antibiotic


6 Hrs.

Antimicrobial selection, Empiric antibiotic therapy for common inpatient and outpatient infections, Tenets of appropriate antibiotic use

Suggested Reading:

Fishman, N. (2006). Antimicrobial stewardship. *American journal of infection control*, 34(5), S55-S63.

Rice, L. B. (2018). Antimicrobial stewardship and antimicrobial resistance. *Medical Clinics*, 102(5), 805-818.



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