

MHD II, Session IX

Correlative Lecture Objectives

MHD

Describe diseases caused *Chlamydia trachomatis*.

Describe the life cycle of Chlamydia and be able to distinguish its genetic and metabolic composition from other bacteria

Describe laboratory techniques for diagnosis of chlamydial infections

Describe the morphology of *Treponema pallidum*

Identify the mechanism of transmission of *Treponema pallidum*

Describe the pathogenesis of infection with *Treponema pallidum*

From a description of clinical findings, identify the stages of syphilis

Identify and describe the difference between the nonspecific nontreponemal and the specific treponemal serologic tests for syphilis

Identify the serological tests that are used to follow the treatment of syphilis

Know the treatment regimens for primary and secondary and early latent syphilis

P&T

Describe the differences in the spectrum of activity between the four generations of cephalosporins.

Describe the cephalosporins that are best for *Staphylococcus aureus*, *Pseudomonas aeruginosa*, and anaerobes (*Bacteroides fragilis*, etc.)

List the clinical uses of representative agents within each generation of cephalosporins,

Describe the mechanism of action and mechanisms of resistance of metronidazole.

List the spectrum of activity of metronidazole, with special emphasis on their activity against anaerobes and *Clostridium difficile*.

List the major clinical uses of metronidazole.

List the major adverse effects associated with metronidazole therapy. Describe patient counseling with regard to alcohol consumption during metronidazole therapy.

Describe the mechanism of action of the aminoglycosides.

List the spectrum of activity of the aminoglycoside antibiotics.

Identify the major adverse reactions that may occur during aminoglycoside therapy.

Describe the mechanisms of action of clindamycin.

List the spectrum of activity of clindamycin, macrolides.

List the major adverse effects associated with clindamycin

Identify the key characteristics of the tetracyclines with respect to:
Mechanism of Action, Spectrum of Activity, Clinical Uses

Correlative topics in First Aid for USMLE I 2011

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