

Antimicrobial Treatment

Chapter 10

- I. Vocabulary
 - A. Prophylaxis
 - B. Antimicrobial Chemotherapy
 - C. Antimicrobials
 - D. Antibiotics
 - E. Semisynthetic
 - F. Synthetic
 - G. Narrow-Spectrum
 - H. Broad-Spectrum
- II. Antimicrobial Considerations
- III. History
 - A. Salvarsan
 - B. Sulfonamides
 - C. Penicillin
 - D. Now others
- IV. Diagnosis
- V. Discovery & Susceptibility
 - A. Evaluation
 - B. Use-dilution test
 - C. Tube-dilution test
 - D. Kirby-Bauer
 - a. zone of inhibition
- VI. Antimicrobial classes
 - A. Target = Cell wall
 - 1. Penicillins
 - 2. Cephalosporins
 - 3. Vancomycin
 - B. Target - Protein synthesis
 - 1. Aminoglycosides
 - 2. Tetracycline
 - 3. Macrolides
 - C. Target - folic acid synthesis
 - 1. Sulfonamides
 - D. Target - DNA
 - 1. Fluoroquinolones
- VII. Anti-fungals
- VIII. Anti-protozoals
 - A. Metronidazole
- IX. Anti-virals
 - A. Strategies
- X. Antimicrobial Resistance
 - A. Intrinsic
 - B. Acquisition
 - C. Mechanisms