

# Department of anesthesia

Practical pharmacology

**Dr. zaidoon abd alwahab altahan**

**Antimicrobial Drugs**

[Altahanzaidoon@gmail.com](mailto:Altahanzaidoon@gmail.com)

# Bacteriostatic versus bactericidal drugs

- Bacteriostatic: arrest the growth and replication of bacteria at serum(or urine) levels achievable in the patient
- Tetracyclines
- Aminoglycosides (amikacin, gentamycin)
- Macrolides (azithromycin)

- **Bactericidal:** kill bacteria at drug serum levels achievable in the patient
- Ciprofloxacin
- Penicillin (Amoxil)
- Cephalosporins (cefixime, ceftriaxone and cefotaxime)
-

# Chemotherapeutic spectrum

- **Narrow-spectrum antibiotics** : this type of antibiotics action only single or a limited group of microorganisms
  - Exp. Isoniazid act on Tuberculosis (TB) only
- **Broad-spectrum antibiotics** : this affect a wide variety of microbial species
  - Exp. Tetracycline , ceftriaxone and Ciprofloxacin

# Antifungal drugs

- **DRUGS FOR SUBCUTANEOUS AND SYSTEMIC MYCOTIC INFECTIONS :**
- **Azole antifungals** : fluconazole and itraconazole
- **DRUGS FOR CUTANEOUS MYCOTIC INFECTIONS:**
- **Nystatin** : oral Candida infections  
Topical for cutaneous candidiasis