

# ANTIBIOTICS

PHARMACOLOGY MECHANISMS CLASSIFICATIONS

PART-1



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# Antibiotics

- **Antibiotics:** An antibiotic is a chemical substance produced by microorganism which prevents the growth of other microorganism or kills the other microorganism. **These are natural substances**

# Antibiotics classification

- **Antibiotics Classified as:**
- **According to the mode of action on Bacteria:**
- **According to the type of Bacteria:**
- **According to the effectiveness against microorganism:**

## According to the mode of action of bacteria

- **Bacteriostatic:** These antibiotics inhibit the growth & multiplication of Bacteria. Eg. Tetracycline, Chloramphenicol, Sulphonamides, Dapsone, Erythromycin, Clindamycin.

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- **Bacteriostatic:** These antibiotics inhibit the growth & multiplication of Bacteria. Eg. Tetracycline, Chloramphenicol, Sulphonamides, Dapsone, Erythromycin, Clindamycin.
- **Bactericidal:** These antibiotics destroy or kill all the Bacteria in the process of multiplication. Eg. Penicillin, Aminoglycosides, Cephalosporin, Fluoroquinolones, Rifampicin, Metronidazole etc.

# According to the type of Bacteria

- **Gram Positive:** Some Antibiotics are effective mainly against Gram Positive Bacteria Eg. Penicillin.



# According to the effectiveness

- **Broad Spectrum:** The Antibiotics which acts against wide range of microorganisms.



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