

DEPARTMENT OF PHARMACOLOGY

1ST MDS SYLLABUS

All the first year MDS students of all departments will be having theory classes of Pharmacology from June to September of every year

i. General Pharmacology

- Introduction, routes of drug administration.
- Pharmacokinetics.
- Pharmacodynamics.
- Aspects of pharmacology: clinical pharmacology and drug development.
- Adverse drug effects.

ii. Drugs acting on Autonomic Nervous System

- Cholinergic system and drugs.
- Anticholinergic drugs and drugs acting on autonomic ganglia.
- Adrenergic system and drugs.

iii. Autocoids and Related Drugs

- Histamine and antihistaminics.
- 5-Hydroxytryptine, its antagonists and drug therapy of migraine.
- Prostaglandins, leucotriens and platelet activating factor.
- Nonsteroidal anti-inflammatory drugs and antipyretic-analgesics.

iv. Hormones and Related Drugs

- Insulin, oral hypoglycemic drugs and glucagon.
- Corticosteroids.
- Drugs affecting calcium balance.

v. Drugs Acting on Peripheral Nervous System

- Skeletal muscle relaxants.
- Local anesthetics.

vi. Drugs acting on Central Nervous System

- General anesthesia.
- Sedative-Hypnoytics.
- Antiepileptic drugs.
- Antidepressent and antianxiety drugs.
- Opiod analgesics and antagonists.

vii. CardioVascular Drugs

- Drugs affecting Renin-Angiotensin system and plasma kinins.
- Cardiac glycosides and drugs for heart failure.
- Antiarrhythmic drugs.
- Antianginal and other anti-ischaemic drugs.
- Antihypertensive drugs.

viii. Drugs Acting On Kidney

- Diuretics.

- Antidiuretics.

ix. Gastrointestinal Drugs

- Drugs for peptic ulcer.
- Drugs for emesis, reflux and digestive disorders.
- Drugs for constipation and diarrhoea.

x. Antimicrobial drugs

- Sulfonamides, Cotrimoxazole and Quinolones.
- Beta-Lactam antibiotics.
- Tetracyclines and Chloramphenicol.
- Aminoglycosides.
- Macrolide, Lincosamide, Glycopeptide and antibiotics.
- Antitubercular drugs.
- Antileprotic drugs.
- Antifungal drugs.
- Antiviral drugs.
- Antiamoebic and antihelminthic drugs.
- Anti cancer drugs.
- Immunosuppressant gene therapy.
- Antiseptics and disinfectants
- Vitamins.
- Emergencies in dental Office and emergency drugs in clinical dentistry,

xi. Drugs Acting On Blood

- Coagulants.
- Anticoagulants.
- Haematinics.
- Drug Interactions.

xii. Dental pharmacology

- Antiseptics, Astringents, Obtundents.
- Mummifying agents, Bleaching agents, Styptics,.
- Disclosing agents, Dentifrices, Mouth washes, Fluorides.
- Pharmacotherapy of common oral conditions in dentistry.