

CLINICAL PHARMACOLOGY
(POST GRADUATE DEGREE STANDARD)

SUBJECT CODE: 352

UNIT - I : GENERAL PHARMACOLOGY

Sources of drugs, Routes of drug administration, Dosage formulations, Pharmacokinetics, Pharmacodynamics - Good Clinical Practice & Good Manufacturing Practice - Patient compliance, and self medication, Placebo medicines and pharmacoconomics.

Discovery and development of drugs - Preclinical studies in animals - Clinical trials - Official regulatory guidelines.

Orphan drugs and diseases, Spurious drugs, Counterfeit drugs - Pharmacoepidemiology and Pharmacovigilance - Pharmacogenetics - Adverse drug reactions and monitoring - Clinical importance of drug interactions (both pharmacokinetic and pharmacodynamic interactions with special reference to antibiotics, anti-bacterials, NSAIDs and cardiovascular drugs) - Therapeutic drug monitoring.

UNIT - II : DRUG THERAPY IN SPECIAL SITUATIONS

Geriatrics - Pediatrics - Pregnancy and Lactation.

UNIT - III : CHEMOTHERAPY

Chemotherapy of bacterial (including Tuberculosis & Leprosy) - viral - fungal - protozoal - helminthic infections - Neoplastic diseases.

UNIT IV : DRUGS ACTING ON NERVOUS SYSTEM - CENTRAL NERVOUS SYSTEM

General anaesthetics - Narcotics - Antiepileptics - Sedatives and Hypnotics - Psychopharmacological drugs - CNS Stimulants - Neurodegenerative disorders - Hallucinogens - Deaddiction for alcohol and other drugs of abuse.

UNIT V : PERIPHERAL NERVOUS SYSTEM & AUTONOMIC NERVOUS SYSTEM

Local Anaesthetics - Skeletal Muscle Relaxants - Atropine & Substitutes - Adrenaline & Derivatives - Drugs in Glaucoma.

UNIT VI : CARDIOVASCULAR DRUGS

Hypertension - Angina & Myocardial Infarction - Congestive Heart failure - Arrhythmias.

UNIT VII : ENDOCRINOLOGY

Anterior pituitary Hormones - Thyroid Hormones – Corticosteroids-Insulin & Oral Hypo glycemic drugs -Male & Female sex Hormones - Oral contraceptives - Uterine stimulants & relaxants.

UNIT VIII : DRUGS ACTING ON HEMOPOEITIC SYSTEM, RENAL AND GIT

Haematinics- Coagulants & Anticoagulants – Fibrinolytics & Antifibrinolytics - Antiplatelets, Hypolipidemic Drugs – Diuretics - Drugs Acting on GIT.

UNIT IX : IMMUNOPHARMACOLOGY& AUTACOIDS

Cell and biochemical mediators involved in allergy, immuno modulation and inflammation, hypersensitivity reactions - therapeutic agents for allergy, asthma and COPD - NSAIDs & DMARDs & gout – Antihistamines - Serotonin agonists & Antagonists.

UNIT X : MISCELLANEOUS

Vaccines - Dermatological preparations - Chelating Agents – Nutraceuticals - Supplementary & formula feeds – Toxicology.
