

DEPT OF PHARMACOLOGY

DEPARTMENT OF PHARMACOLOGY

Theory Lecture III Term

Lecture No.	Topic		
1.	Introduction to Pharmacology		
2.	Pharmacokinetics	-----	Routes of administration
3.	“	-----	Membrane transport, Bioavailability
4.	“	-----	Distribution , Metabolism
5.	“	-----	Excretion , Kinetics of elimination
6.	Pharmacodynamics	-----	Mechanism of drug action
7.	“	-----	Receptors
8.	“	-----	DRC
9.	Clinical Pharmacology	-----	Factors affecting drug action
10.	“	-----	Rational use of drugs
11.	“	-----	New drug development
12.	“	-----	ADR
13.	ANS	-----	General considerations
14.	“	-----	Cholinergic drugs Part -1
15.	“	-----	Cholinergic drugs Part -2
16.	“	-----	Anticholinergic drugs Part - 1
17.	“	-----	Anticholinergic drugs Part - 2
18.	“	-----	Adrenergic drugs Part – 1
19.	“	-----	Adrenergic drugs Part – 2
20.	“	-----	Antiadrenergic drugs Part –1
21.	“	-----	Antiadrenergic drugs Part –2, Glaucoma
22.	CVS	-----	Electrophysiology of heart
23.	“	-----	Drugs affecting RAS
24.	“	-----	CCF Part –1
25.	“	-----	CCF Part –2

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26.	“	-----	Antiarrhythmic drugs Part –1
27.	“	-----	Antiarrhythmic drugs Part –2
28.	“	-----	Antianginal drugs Part - 1
29.	“	-----	Antianginal drugs Part - 2
30.	“	-----	Antihypertensive drugs Part –1
31.	“	-----	Antihypertensive drugs Part –2
32.	Drugs acting on kidney	-----	Diuretic agent Part –1
33.	“	-----	Diuretic agent Part –2
34.	“	-----	Anti diuretic drugs
35.	Drug affecting blood	-----	Iron deficiency anaemia
36.	“	-----	Megaloblastic anaemia
37.	“	-----	Hypolipidemic agents Part –1
38.	“	-----	Coagulants
39.	“	-----	Anticoagulants
40.	“	-----	Fibrinolytic agents
41.	“	-----	Antiplatelet agents
42.	Autacoids	-----	Histamine
43.	“	-----	Antihistaminic Agents
44.	“	-----	5 HT, migraine

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III Term Practicals

1. Introduction to practical Pharmacology
2. Prescription writing

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3.	Prescription writing	:	Exercises
4.	Pharmacy	:	Dosage forms
5.	Pharmacy	:	Apparatus
6.	Preparation and dispensing of mixture	:	Carminative mixture
7.	Preparation and dispensing of mixture	:	Alkaline expectorant
8.	Dosage forms	:	
9.	Preparation and dispensing of suspension	:	Mg SO ₄ suspension
10.	Preparation and dispensing of emulsion	:	Liq Parafin emulsion
11.	Routes of drug delivery	:	
12.	Preparation and dispensing of powder	:	ORS Powder
13.	Preparation and dispensing of lotion	:	Calamine lotion
14.	IV Infusion	:	
15.	Preparation and dispensing of liniment	:	Turpentine liniment
16.	Preparation and dispensing of ointment	:	Whitfield ointment
17.	Drug dose calculations	:	

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Lecture Schedule IVth Term

Lecture No.	Topic	
1.	Respiratory system	Bronchial Asthma 1/2
2.		Bronchial Asthma 2/2

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3.		Drugs for Cough
4.	Hormones	Anterior Pituitary Hormones
5.		Thyroid Hormones
6.		Thyroid Inhibitors
7.		Oral Hypoglycaemic drugs 1/3
8.		Oral Hypoglycaemic drugs 2/3
9.		Oral Hypoglycaemic drugs 3/3
10.		Insulin
11.		Glucagon
12.		Corticosteroids 1/2
13.		Corticosteroids 2/2
14.		Androgens
15.		Estrogens
16.		Progestin's
17.		Contraceptives
18.		Drugs Acting on Uterus
19.		Drugs Affecting Calcium Balance
20.	Peripheral Nervous System	Skeletal Muscle Relaxants
		Local anaesthetics
21.	Central Nervous System (CNS)	General Anaesthetics ½
22.		General Anaesthetics 2/2
23.		Ethyl and Methyl Alcohols
24.		Sedative-Hypnotics
25.		Antiepileptic Drugs ½
26.		Antiepileptic Drugs 2/2
27.		Antiparkinsonian Drugs ½
28.		Antiparkinsonian Drugs 2/2
29.		Antipsychotic Drugs ½
30.		Antipsychotic Drugs 2/2
31.		Antidepressant Drugs
32.		Antianxiety Drugs
33.		Opioid Analgesics ½

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34.		Opioid Analgesics 2/2
35.		CNS Stimulants

IV Term Practicals

1. Preparation a dispensing of a lotion.
2. Preparation a dispensing of a liniment.
3. Preparation a dispensing of a ointment.
4. Clinical pharmacokinetics.
5. Disintegration time.

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6. Bioavailability exercise's.
7. Introduction to Experimental Pharmacology.
8. Effect of drug on isolated tissue.
9. Drug response curve.
10. Drug antagonism.
11. Effect of drugs in an intact animal Preparation.
12. Experimental evaluation techniques for new drugs.

Lecture Schedule Vth Term

Lecture No.	Topic	
1.	G.I.T	Peptic Ulcer
2.	Antimicrobial Drugs	General Considerations
3.		Sulfonamides,

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4.		Quinolones
5.		Beta-Lactam Antibiotics
6.		Tetracyclines
7.		Chloramphenicol
8.		Aminoglycosides
9.		Macrolide Antibiotics
10.		Urinary Antiseptics
11.		Antitubercular Drugs
12.		Antileprotic Drugs
13.		Antifungal Drugs
14.		Antiviral Drugs
15.		Antimalarial Drugs
16.		Antiamoebic Drugs
17.	Chemotherapy	Anticancer Drugs
18.	Miscellaneous Drugs	Immunosuppressants
19.		Gene Therapy
20.		Antiseptics
21.		Ectoparasiticides
22.		Chelating Agents
23.		Vitamins
24.		Vaccines
25.		Drug Interactions
26.	Peripheral Nervous System	Skeletal Muscle Relaxants
27.		Local Anaesthetics
28.	Central Nervous System (CNS)	General Anaesthetics ½
29.		General Anaesthetics 2/2
30.		Ethyl and Methyl Alcohols
31.		Sedative-Hypnotics
32.		Antiepileptic Drugs ½

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33.		Antiepileptic Drugs 2/2
34.		Antiparkinsonian Drugs ½
35.		Antiparkinsonian Drugs 2/2
36.		Antipsychotic Drugs ½
37.		Antipsychotic Drugs 2/2
38.		Antidepressant Drugs
39.		Antianxiety Drugs
40.		Opioid Analgesics ½
41.		Opioid Analgesics 2/2
42.		CNS Stimulants
43.	Gastrointestinal (GIT)	Drugs for Peptic Ulcer ½
44.		Drugs for Peptic Ulcer 2/2
45.		Drugs for Constipation
46.		Drugs for Diarrhoea
47.		Drugs for Emesis, Reflux, Digestive Disorders

V TERM PRACTICALS

1. Clinical evaluation techniques for new drugs
2. Fixed Dose Combination
3. Drug Interactions
4. Adverse Drug information (including scrutiny of promotional literature)
5. Rational Pharmacology
6. Case Studies

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7. Drug Labels