Pharmacology Curriculum with Themes for PhD Entrance examination

Sr.	Themes	Topic	Contents
No.			
1	General & Clinical	General Pharmacology	Introduction: Pharmacology: A Foundation to Clinical Practice.
	Pharmacology		Pharmacokinetics: Absorption, Distribution, Biotransformation, Elimination. Pharmacodynamics: Principles of Drug Action, Mechanism of DrugAction, Receptors.
			Combined Drug Administration: Indifference, Synergism, and Antagonism. Adverse Drug Reactions.
			Drug interactions.
			Factors Modifying Drug Action.
			History of Pharmacology and medicine with reference to Pharmacology. Pharmacogenomics and Pharmacogenetics.
			Therapeutic drug monitoring.
			Therapeatic arag monitoring.
		Clinical	Protocol for a clinical trial.
		pharmacology	Informed consent.
			Pharmacovigilance program of India.
2	Drugs acting on ANS, PNS & CNS	Autonomic	General Considerations and Neurohumoral Transmission
		Pharmacology and	Adrenergic Drugs
		P.N.S.	Antiadrenergic drugs
			Parasympathomimetic drugs
			Parasympatholytic drugs
			Skeletal muscle relaxants
			Local anaesthetics.
		Neuropsychiatric	General Anaesthetics
		and Perioperative	Hypnosedatives
		Pharmacology	Preanaesthetic Medication
			Pharmacotherapy of Epilepsy
			Analgesics : Opioids and N.S.A.I.Ds
			Antiparkinsonian Drugs
			Drug abuse and drug dependence.

			Ethyl & Methyl alcohol. Drug therapy of Rheumatoid arthritis, Gout.
			Psychopharmacology
			CNS stimulant, Analeptics & cognition enhancers.
3	Cardiovascular,	Cardiovascular and	Antihypertensives and Pharmacotherapy of Hypertension
	Renal &	Renal Pharmacology	Antianginal Drugs and Pharmacotherapy of Angina Pectoris
			Management of Congestive Cardiac Failure
	Haematological		Antiarrhythmic drugs
	pharmacology		Diuretics and Antidiuretics
			Pharmacotherapy of Shock & Vassopressor agents
			Drugs used in Dyslipidemias.
		Haematological	Haematinics
		Pharmacology	Coagulants, Anticogulants, Antiplatelets, Thrombolytic and Antifibrinolytic drugs.
			Haematopoietic growth Factors.
4	Drugs acting on GIT,	Gastrointestinal	Pharmacotherapy of Acid Peptic Disease
	Pospiratory 2	Pharmacology	Antidiarrhoeals and Management of Diarrhoea
	Respiratory &		Antiemetics and Management of Vomiting
	Endocrine System		Purgatives and Management of Constipation
			Emetics
		Respiratory System	Drugs used in cough, Bronchial Asthma and COPD.
		Endocrine	Adrenohypophyseal hormones
		Pharmacology	Thyroid and Antithyroid Drug
			Pharmacotherapy of Diabetes Mellitus
			Corticosteroids
			Estrogen, Progestins and their Antagonists
			Hormonal Contraceptives
			Testosterone and Anabolic Steroids.
			Drugs acting on uterus.
			Paratharmone and Drugs affecting Calcium Metabolism
5	Chemotherapy &	General	General Considerations
	Miscellaneous	Chemotherapy	Sulfonamides, Cotrimoxozole, Fluoroquionolones
			Beta-Lactam Antibiotics
			Aminoglycosides
			Broad Spectrum Antibiotics

	Macrolides
	Miscellaneous antibiotics.
	Principles of Cancer Chemotherapy.
Chemotherapy of	Chemotherapy of Tuberculosis
Specific Infections	Chemotherapy of Leprosy
	Chemotherapy of Malaria
	Chemotherapy of Viral Infection
	Chemotherapy of U.T.I
	Chemotherapy of Amoebiasis
	Chemotherapy of fungal infections
	Chemotherapy of S.T.Is
	Anthelminntic drugs
	Anticancer drugs.
Miscellaneous	Immunomodulators - immunosuppressants and immunostimulants.
	Dermal & Ocular Pharmacology
	Antiseptic and disinfectants
	Heavy metal poisoning
	Geriatric Pharmacology.
	Use of drugs in pregnancy.
	Dietary supplements and herbal medicines.
	Perinatal and paediatric Pharmacology.
	Histamine & antihistaminics
	5-HT & it's agonist,antagonists& ergot alkaloids.