JCAT Paper 1 Table of Specification (TOS)

- JCAT Paper 1 consists of <u>100 questions</u> from basic sciences.
- Basic Sciences include specified contents of syllabus from the subjects of Anatomy, Physiology, Biochemistry, Pharmacology, General Pathology, Microbiology, Behavioral Sciences, and Community Medicine.

Passing Marks shall be 75%.

Sr.	Subject	Number of MCQs	
1.	Anatomy	20	
2.	Physiology	20	
3.	Biochemistry	10	
4.	Pathology	13	
5.	Microbiology	07	
6.	Community Medicine	09	
7.	Behavioral Sciences	05	
8.	Pharmacology	16	
	Total	100	

Sr. No.	Subject	Topic	Sub-topics	Number of MCQs
1		General Anatomy	Musculo-Skeletal system Types of bones and joints Structures related to muscles and joints; tendons, ligaments, aponeurosis Cardiovascular System Classification of blood vessels Anastomosis Applied aspects of lymphatic system	20 (Min. two Max. three MCQs from each
		Embryology	Cell division and gametogenesis Fertilization, cleavage, blastocyst formation and implantation of the embryo Stages of early embryonic development in second and third week of intrauterine life Development of embryo and foetus Foetal membrane (amniotic cavity, yolk sac, allantois, umbilical cord and placenta) Teratology	topic)
	h	Histology	Epithelium & Cell Junctions Connective Tissue Bones & Cartilage	
	Anatomy	Upper Limb	Neuro-vasculature Brachial Plexus Dermatomes Major muscle groups of clinical and surgical importance	

Page 1 of 21

Augustian

	T
	Joints of upper limb
	Common Upper limb injuries and deformities
	Surface anatomy
Lower Limb	Neuro-vasculature
	Lumbar and Sacral Plexus
	Dermatomes
	Major muscle groups of clinical and surgical
	importance
	Joints of lower limb
	Common Lower limb injuries and deformities
	Surface anatomy
Head & Neck	Muscles of Facial expression and mastication
	Joints
	Neuro-vasculature
	Common facial injuries and deformities (Cleft lip and
	palate)
	Danger area of face and scalp
Thorax, Abdomen	Anatomy of Heart and Lungs
and Pelvis	Abdominal viscera
	Neuro-vasculature
	Muscles of pelvic floor
	Applied anatomy
Neuroanatomy	Blood Supply of Brain and Spinal Cord
	Overview
	Disorders
	Cerebral Cortex
	Common features
	Blood Supply
	Homunculus
	Lobes and their functions
	Spinal Cord
	General Features
	Spinal Cord Tracts
	Spinothalamic Tract
	Dorsal Column-Medial Lemniscus
	UMN-LMN
	Spinocerebellar Pathways
	Spinal Cord Lesions
	Brown-Sequard Syndrome
	Poliomyelitis
	Tabes Dorsalis
	Anterior Spinal Artery occlusion
	Ventricular System
	Overview
	CSF Production, Barrier and drainage
	Abnormalities and diseases
	Brain Stem

Page 2 of 21

An Gredenth

			20 年 (1 元 · 1 元 ·	
			General features	
			Cerebellum	
			Functions	
			Blood Supply	
			Diseases	
			Basal Ganglia	
			Functions	
			Common diseases	
			Autonomic Nervous System	
			Organization	
			Parasympathetic Nervous System	
			Overview	
			Neurotransmitters	
			Ganglions and their location	
12			Distribution	
			Sympathetic Nervous System	
			Overview	
			Ganglia and their location	
			Distribution	
			Somatic Nervous System	
			Organization	
			Overview	
			Distribution and effect	
2		Fluid Distribution	Distribution of Fluid within the body	20
		and Edema	Body compartments	(Min.
		arra cacina	Forces of filtration and absorption	two
			Edema	and
			Types of edema and their pathophysiology	Max.
			Systemic Edema; its stages	three
			Vascular Overfill Edema	MCQs
			A STATE OF THE STA	from
		Fueltable tienne	Pulmonary edema	
		Excitable tissue	Overview	each
			Membrane potential	topic)
			Electrochemical gradient	
			Equilibrium potential	
			Conductance	
			Ion Channels	
			Ungated (Leak)	
			Voltage Gated	
			Ligand Gated	
			NMDA Receptors	
			Neuron Action Potential and Synaptic Transmission	
			Voltage Gated Na+ Channels	
			Voltage Gated K+ Channels	
	25		Action Potential	
	Physiology		Different Phases	
	.0		Threshold Stimulus	
	YS			
	Ph		Properties of Action Potential; Refractory periods,	
	۵		Conduction velocity of Action Potential	

Page 3 of 21

Au (Webert)

	Action Potential
	Different Phases
	Threshold Stimulus
	Properties of Action Potential; Refractory periods,
	Conduction velocity of Action Potential
	Synaptic Transmission
	Neuromuscular Junction
	Synapses between neurons
	Electrical synapses
Cardiovascular	Electrical Activity of Heart
Physiology	Properties of Cardiac Tissue
	Automaticity
	Conduction
	Contraction
	Contraction pathway
	Cardiac Action Potentials
	Membrane Channels
	Phases of Action potential in non-nodal cells
	Action Potential in Nodal Cells; Phases and difference from non-nodal Action potential
	Effect of Autonomic activity on heart
	Electrocardiography
	Leads
	Correlation of different phases of Action
	Potential with normal ECG.
	Axis Deviation; Normal, Right and Left axis

CAR

Page 4 of 21

Av (velocity)

Respiratory	Lung Mechanics	
Physiology	Lung Volumes and Capacities	
	Ventilation	
	Conducting and Respiratory Zones	
	Muscles of Respiration	
	Lung Compliance and Elasticity	
	Pulmonary Function Testing	
	FVC, FEV1	
	FVC:FEV1	
	Flow Volume Loops	
	Obstructive vs Restrictive patterns	
	Alveolar-Blood Gas Exchange	
	Partial pressures	
	Factors affecting partial gas pressures	
	Diffusion capacity (DLCO)	
	Transport of O ₂ and CO ₂	
	Hemoglobin and O₂ molecules	
	O ₂ -Hb dissociation Curves	
	Carbon Monoxide and Hb	
	Transport of CO₂ in blood	
	Different ways of transport	
	Chloride shift	
	Neural Regulation of Ventilation	
	Central Chemoreceptors	
	Location	
	Role in regulation	
	Effect of partial gas pressure	
	Peripheral Chemoreceptors	
	Location	
	Role and effect of partial pressures	
	Unusual Environments	
	High Altitude	
	High Pressure environment	
	Acclimatization	
	Hypoxemia	
	Ventilation-Perfusion differences	
	Regional differences	
	Relationship of ventilation and perfusion	
The state of the s	Mismatch	
	Causes of Hypoxemia	
	Hypoventilation	
	Diffusion Impairment	

Dig.

(Saw

4

W

Page **5** of **21**

An freewales

Hematology	Blood and its components
	Plasma Proteins
	Erythrocytes and Erythropoiesis
	White Blood Cells
	Platelets
	Hemostasis
·	Coagulation
	Clotting pathways and Factors
	Blood Grouping
	Transfusion Reactions
	Erythroblastosis Foetalis
Renal Physiology	Renal structure and Glomerular Filtration
	Functional organization of the kidney
	Functions of a nephron
	Filtration
	Reabsorption
	Secretion
	Excretion
	Glomerular Filtration
	Factors determining net filtration pressure
	Filtering membrane
	Materials filtered
	Filtration Fraction
	Effect of Sympathetic tone
	Renin Angiotensin Aldosterone System
	Solute Transport
	Net movement
	Clearance
	Transport Maximum Tubular Reabsorption
	Transport Maximum Tubular Secretion
	Clearance as an estimate of GFR
	Clearance of some specific substances
	Inulin
	Glucose
	Creatinine
	Free Water clearance
	Sodium
	Urea
	Regional Transport
	Proximal Tubule
	Substances reabsorbed, secreted and energy
	requirements
	Loop of Henle
	Movement of different substances in different
	THE CONTRACT OF THE PROPERTY O
	segments and role of urea Distal Tubule
	Substances Reabsorbed Effect of different hormones
	chect of different normones

A Som

#

1 Land

Page 6 of 21

Are deple

	Types of cells and their functions
	Hormonal effects
	Acid-Base Disturbances
	Buffering Systems
	Primary disturbances and compensation
	Respiratory Acidosis
	Metabolic Acidosis
	Respiratory Alkalosis
	Respiratory Alkalosis
	Metabolic Alkalosis
Endocrine	General aspects
A TOTAL SERVICE SERVIC	Lipid vs Water soluble hormones
Physiology	Protein bound vs Free circulating
	Hormone receptors
	Hormone specificity; exceptions
	Hormone activity
	Resistance to hormone action (Down Regulation)
	Permissive Action
	Measurement of Hormone Levels; Plasma and
	Urine analysis
	Disorders of Endocrine System; Hypofunction,
	Hyperfunction, Gland structure and size
	Hypothalamic-Anterior Pituitary System
	Hormones; source, regulation and effect
	Disorders
	Posterior Pituitary
	Hormones; regulation, effect
	Disorders
	Adrenal Cortex
	Regions and Zones; Hormones produced by
	different regions and zones and their regulation
	Physiological Actions of Glucocorticoids
	Stress Hormones
	Metabolic Actions of Cortisol
	Permissive Actions of Cortisol
and other than 1991	Physiological Actions of Aldosterone; its regulation,
	effect on electrolytes
	Disorders of Glucocorticoid and Mineralocorticoid
	synthesis
	Adrenal Medulla
	Hormones
	Epinephrine; actions on Liver, Skeletal muscles and
	adipose tissue
	Disorders; Pheochromocytoma
	Endocrine Pancreas
	Hormones
	Insulin; Actions on carbohydrate metabolism,
	protein metabolism, fat metabolism
	protein metabolism, lat metabolism

Page 7 of 21

And

Page 7 of 21

And

Page 7 of 21

		(Glucokinase Stimulation) Insulin effect on Potassium Glucagon; Actions and effect on Liver glycogenolysis, Liver gluconeogenesis, Liver ketogenesis and lipogenesis, Ureagenesis, insulin secretion, Liver lipolysis Thyroid Hormones	
	*	Synthesis Storage Circulation, Regulation Peripheral Action Hyper and Hypothyroidism Male Reproductive Physiology Hypothalamic-Pituitary-Gonadal axis	
		Functions of Testosterone Spermatogenesis Age related hormonal changes Female Reproductive System Menstrual Cycle; phases, hormonal regulation and effects Pregnancy; physiological changes Lactation; hormones involved, regulation	
	Gastrointestinal Physiology	Functions of Estrogen and Progesterone Overview Nervous control Endocrine Control Secretions Motility Composition and formation of Bile acid Digestion; enzymes (their source), absorption of different products of digestion, Electrolyte absorption	
mistry	Genetics	 Comparison of DNA and RNA synthesis Major enzymes involved in DNA and RNA synthesis DNA repair Thymine Dimer Mismatched base Cytosine deamination Diseases associated with DNA repair Xeroderma Pigmentosum Hereditary Non-polyposis, colorectal cancer Role of P-53 and Rb in cell cycle and DNA repair 	(10) Min. Two Max. three from each topic
Biochemistry		Regulation of Gene Expression Protein Synthesis (Translation) Biotechnology and Human disease	

of ly

Amino Acids, Proteins and Enzymes	 Amino Acids ➤ General Structure ➤ Essential Amino Acids ➤ Non-essential Amino Acids Nitrogen Balance Biochemical reactions ➤ Enzyme kinetics ➤ Vmax (rate max) ➤ Km (affinity) Enzymes ➤ Inhibitors and Activators ❖ Competitive vs Non-Competitive inhibitors ❖ Allosteric vs Active site Transport Kinetics Vitamins Water soluble and lipid soluble vitamins Common Vitamin deficiencies
Hormones and Signal Transduction	Classes of Hormones ➤ Water Soluble Lipid soluble Mechanism of action of water soluble hormones ➤ Pathways
Overview of energy metabolism	 Pathways of glucose metabolism Glycolysis Pyruvate dehydrogenase Kreb's Cycle Electron Transport Chain Metabolic profile of well-fed (Absorptive State) Metabolic profile of Post-absorptive state Prolonged Fasting (Starvation) Lipid synthesis and Storage ▶ Lipid digestion ▶ Fatty Acid biosynthesis ▶ Lipoprotein metabolism ▶ Chylomicrons, LDL, VLDL, HDL, VLDL remnants Hyperlipidemias

Page 9 of 21

And And Andrewsky

		 Cholesterol metabolism Lipid mobilization and Catabolism Lipid mobilization Fatty Acid oxidation Ketone body metabolism 	
4	Cell Injury	Ischemia, Hypoxia, Infarction and Autolysis. Irreversible and reversible injury Apoptosis and its significance. Necrosis and its types Exogenous and endogenous pigmentation. Dystrophic and metastatic calcification along with clinical significance Cellular adaptations (hypertrophy, hyperplasia, atrophy, metaplasia)	2
	Inflammation and Repair	Role of inflammation in the defense mechanisms of the body. Vascular changes of acute inflammation and their relation to morphological and tissue effects. Process of Chemotaxis, Opsonization and Phagocytosis. Role of cellular components in inflammatory exudate. Exudates and transudate. Important chemical mediators of inflammation. Role of products of Arachidonic acid metabolism in inflammation. Mechanism for development of fever, with reference to exogenous and endogenous pyrogens. Chronic inflammation including Granulomatous diseases Systemic effects of acute and chronic inflammation and their possible outcomes. Significance of ESR.	2
	Wound Healing	Repair and regeneration. Wound healing by first and second intention. Factors that influence the inflammatory reparative response. Wound contraction and cicatrisation. Formation of granulation tissue. Complications of wound healing.	1
Pathology	Haemodynamics	Thrombo-embolic disorders and their modalities Etiology and pathogenesis of thrombosis. Possible consequences of thrombosis Difference between thrombi and clots Classification of emboli according to their composition. Difference between arterial and venous emboli. Hemorrhage, Hyperemia and Congestion	2

Page 10 of 21

Finds which light to the state of the stat

		Definitions of common types of Hemorrhage	
		Types of hyperemia	
		Difference between hyperemia and congestion	
		Infarction	
		Types of infarction	
		Difference between anemic and hemorrhagic infarct	
		Morphological picture of infraction in different	
		organ systems	
		Disorders of the circulation and shock	
		Edema, ascites, hydrothorax and anasarca.	
		Pathophysiology of edema with special emphasis on	
		CHF.	
		Pathogenesis of four major types of shock	
		(Hypovolemic, cardiogenic, vasovagal & septic) and	
		their causes.	
		Compensatory mechanisms involved in shock.	
	Neoplasia	Dysplasia, Neoplasia, Anaplasia.	3
		Cell cycle and cell types (stable, labile, permanent)	
		Mechanisms controlling cell growth	
		Classification systems of tumors.	
		Characteristics of benign and malignant tumors	
		Difference between Carcinoma and Sarcoma.	
		Grading and staging system of tumors.	
		Biology of tumor growth	
		Process of carcinogenesis	
		Mechanism of local and distant spread.	
		Local and systemic effects of tumors.	
		Tumor markers used in the diagnosis and	
1		management of cancers.	
		Common chemical, physical agents and viruses	
		related to human cancer.	
		Epidemiology of common cancers in Pakistan. Radiation and its effects on tissues.	
		Cancer screening. Biomarkers of common cancers	
-	Canadia	Paraneoplastic syndromes	1
	Genetics	Genes and human being	1
		Mandelian disorder	
		Complex Multigenic Disorders	
		Single-Gene Disorders with Nonclassic	
		Inheritance	
		With focus on:	
		Diseases Caused by	
		Common sex linked, autosomal recessive and	
		autosomal dominant disorders.	
		Common genetic mutations.	
		Diseases associated with consanguineous marriages.	

Page 11 of 21

Fred to the last of the las

		Immunology	Antigen, antibody, epitope, hapten and adhesion molecules.	2
			Difference between innate and acquired immunity.	
			Mechanism of humoral and cell medicated	
			immunity.	
			Hypersensitivity reactions, Type I, Type II, Type III	
			and Type IV.	
			Autograft, homograft, allograft and xenograft.	
			Mechanism involved in allograft rejection and steps	
			that can be taken	
			to combat rejection.	
			Classification of Immunodeficiency disorders	
			Basis of autoimmunity.	
			Tissue transplantation	
			Lab diagnosis of immunological diseases.	
5		Bacteriology	General Bacteriology	3
			Pathogenicity	
			Colonization; methods	
			Avoiding immune defense	
			Antigenic Variation	
			Toxins; Endotoxins and Exotoxins	
			Culture of Micro-organisms; Stains, Special Media	
			Bacterial genetic material	
			Antibiotic resistance; mechanisms	
			Sterilization	
			Medically Important Bacteria	
			Mycobacterium Tuberculosis	
			Salmonella	
			Staphylococcus	
			Streptococcus	
			Neisseria	
	>		Traponema pallidum (syphilis)	
	ogo		Clostridia	
	Microbiology		E.coli	
	qc		Pseudomonas	
	CL		H.pylori	
	Ξ		Acinetobacter	
	70 To 1000		Atypical	

CRAP!

Page 12 of 21

		Virology	Structures Host resistance to viral infection; INF, Complements, Natural Killer cells Medically important Viruses Viral Hepatitis; types, transmission, role of different antigens (Focus of HepB), infectivity and mortality, diagnostic criteria of different Hepatitis viruses HIV; life cycle, transmission, diagnosis, complications, role of CD-4 levels Other medically important viruses Influenza Virus SARS-COV-2 Dengue	2
		Parasitology	Medically important parasites; transmission, infections, diagnosis Malaria Entamoeba Histolytica Ancylostoma Giardia Ascaris Lumbricoides Enterobius Vermicularis	2
5		Biostatistics	Basic/Descriptive Biostat Data presentation Data summarization; Mean, Median, Mode, Standard Deviation, Variance, Range) Sample and population Sampling techniques	2
	91		Basics of Inferential Biostats Z-Test Student's t-test Chi-square test Alpha and Beta errors Hypothesis testing steps Correlation and regression (simple linear) P-value and confidence interval	1
	Community Medicine	Epidemiology	Infectious disease epidemiology Primary, secondary, tertiary prevention Incidence and prevalence Epidemiological triad Iceberg phenomenon Chain of disease transmission Modes of disease transmission	2

Page 13 of 21

		Chronic/non communicable disease epidemiology Levels of prevention Preventable cancers Preventable blindness Cardiovascular diseases Nutritional disease	1
	Research methodology	Quantitative Study Design Cross-Sectional Case-Control Cohort Experimental Randomized Controlled Trial Non-Randomized Controlled Trial Measures of Risk Odds ratio Relative risk Association and Causation Validity and Reliability Screening tests Research Ethics	3
	Introduction to behavioral sciences and its importance in health	Bio-Psycho-Social Model of Health Care and the Systems Approach Normality vs Abnormality Link of Health with Behavioural Sciences (Psychology, Sociology, Anthropology) Importance of behavioral sciences in health Correlation of brain, mind and Behavioural Sciences Roles of a doctor Desirable Attitudes in Health Professionals	5 (Max. one MCQ from each topic)
	Understanding Behavior	Sensation and sense organs Perception Attention and concentration Memory Thinking Communication	
Sciences	Stress and stressors	Classification of stress and stressors Stress management Relationship of stress and stressors with illness Concept of life events and their relationship with stress and illness coping skills Psychological defense mechanism Conflict and frustration Concept of adjustment and maladjustment	
Rehavioral Sciences	Doctor-Patient relationship	Doctor-patient relationship What is the concept of boundaries and psychological reactions in doctor patient relationship (such as transference and counter transference)	

mall

C Faut

88

W Sort

Page 14 of 21

		Psychological	Grief and bereavement	
		reactions	Family and illness	
			Dealing with difficult patients	
			Symptoms presentation and culture	
			Illness and Behavior (sick-roles, stigma,	
			Somatization), Treatment Adherence (Compliance)	
			Psychosocial aspects of illness,	
			hospitalization, rape, torture, terminal illness, death	
			and dying	
8			Pharmacokinetics	2
5		General	Permeation	_
		Pharmacology	Ionization and Renal clearance of drugs	
		Filatiliacology	Absorption	
			Bioavailability	
			First-Pass effect	
			Distribution	
			Special Barriers to Distribution	
			Redistribution	
			Biotransformation & classification	
			Elimination	
			Zero-Order	
			First-Order	
			Pharmacodynamics Graded Dose-Response curves	
			Full and Partial agonists	
			Antagonism and Potentiation	
			Quantal Dose-Response Curves	
			Toxicity and Therapeutic Index	2
		Autonomic Nervous	Anatomy of ANS	2
		System	Location of Ganglia	
			Types of Receptors and Neurotransmitters	
			Cholinergic Pharmacology	
			Muscarinic receptors; types, effect produced,	
			agonists and antagonists	
)go		Adrenergic Pharmacology	
	Pharmacology		Receptors; types, locations, effect produced,	
	nac	a " -	agonists and antagonists	
	arr	n to the second	Norepinephrine and Epinephrine; effect produced	
	Ph		at different doses	

and June

Page 15 of 21

Central Nervous	Anticonvulsants	2
System	> Phenytoin	
	* Uses	
	❖ Side-effects	
	Teratogenicity	
	> Carbamazepine	
	* Uses	
	❖ Side-effects	
	* Teratogenicity	
	> Valproic Acid	
	* Uses	
	❖ Side-effects	
	Teratogenicity	
	Opioid Analgesics	
	> Morphine	
	* Uses	
	Toxicity	
	* Antidote; naloxone	
	Status Epilepticus	
	➢ First-Line drugs	
	➤ Route of administration	
	➢ Side-effects	
Chemotherapy	Anti-Bacterial Agents (2 MCQ)	3
	Bactericidals	
	Bacteriostatics	
	Synergy	
	Resistance	
	Broad-Spectrum antibiotics	
	Anti-Tubercular Agents	
	Treatment duration	
	➤ Side-Effects of different Anti-	
	Tubercular Agents	
	Anti-Viral Agents	
	Uses and Side effects	
	 Treatment of HIV/AIDS 	
	Anti-Fungal Agents	
	Anti-Protozoal Agents	
	Drugs used in Malaria	
	Cancer Chemotherapy (1 MCQ)	
Dosnirata	Asthma & COPD	
Respiratory		
Pharmacology	First Line treatment for Asthma and	-
	First Line treatment for Asthma and COPD	-

Jan 1

1

#

y ly

Page 16 of 21

- Beta Receptor Agonists; their contraindication, bronchodilator reversibility test (albuterol): role and mechanism
- Muscarinic Antagonists; their role and side effects
- Methacholine Challenge Test; its mechanism
- Glucocorticoids; their role and longterm use, side-effects.

Theophylline

- > Uses
- Drug Interactions: Erythromycin, Cimetidine and Fluoroquinolones; (CYP450 Inhibition)

Aminophylline

➤ Uses and role of IV Aminophylline in Status Asthamaticus

Antileukotrienes

- ➤ LTD-4 receptor blockers; Zafirlukast and Montelukast
- Lipooxygenase inhibitors; Zileuton; role in using as an adjunct to steroids

Status Asthamaticus

- > First Line Drugs
- > Complications and side-effects.

Glucocorticoids

- Synthetic Glucocorticoids and their Potency.
- Glucocorticoid versus Mineralocorticoid effect of different synthetic glucocorticoids
- Side effects on:
 - ACTH levels
 - Gluconeogenesis
 - Bones; Osteoporosis
 - Electrolyte imbalance; Na+/Water retention, edema, hypokalemic alkalosis, hypocalcemia
 - Skeletal growth of children
 - Wound Healing
- Contraindications.
- > Long-term use and withdrawal

Jan all

W las

Page 17 of 21

T		
Gastrointestinal Pharmacology	 Drugs used for constipation ▶ Laxatives, types, mechanism of action, indications and side effects Anti helminthic drugs, indications and side effects Anti emetic drugs, indications and side effects ▶ 5-HT3 Antagonists; Role in cancer chemotherapy induced vomiting. ▶ Dopamine antagonists; Their pro-kinetic effects and role in cancer chemotherapy induced vomiting. Complications and management, especially Extrapyramidal Symptoms. Anti-Diarrheal Drugs; ○ Opiate anti-diarrheals; Loperamide. Its safety, advantages and use in cholera endemics. Antacids ➤ Uses ➤ Side-effects: Constipation (Al+++), Diarrhea (Mg++) and Alkalosis (Ca++). Anti tumor necrosis factors (TNF) drugs for inflammatory bowel disease, mechanism of action, indications, pre-requisite for initiating 	
Cardiac and Renal Pharmacology	treatment, monitoring and resistance. Diuretics Types Mechanism of Action Uses Adverse effects Anti-Hypertensives ACE inhibitors and ARBs Mechanism of Action Uses Adverse effects Calcium Channel Blockers Types Mechanism of Action Uses Adverse effects Drugs altering Sympathetic Activity Beta Blockers	3

for all

Us Soft

Page 18 of 21

Alpha-2 agonists **Direct Acting Vasodilators** Hydralazine; MOA, Adverse effects Nitroprusside; Uses, Adverse effects and antidote **Potassium Channel Openers** Uses Adverse effects Treatment of Pulmonary Hypertension Drugs used Adverse effects Contraindications Drugs for Heart Failure Ionotropes Types MOA Adverse effects Contraindications **Antidotes Antiarrythmic Drugs** Class 1 Drugs MOA Adverse effects Class 2 Drugs MOA Adverse effects Class 3 Drugs MOA Adverse effects Class 4 drugs MOA Adverse effects **Anti-Anginal Drugs** Nitrates MOA, Use Adverse effects Calcium Channel Blockers

Anti-Hyperlipidemics

HMG Co-A Reductase Inhibitors

Use in vasospastic angina

Bile Acid Sequestrants

Page 19 of 21

	Types MOA Uses Toxicity Antidote Warfarin MOA Uses Toxicity Antidote Thrombolytics Streptokinase and Alteplase Differences Use Toxicity Anti-Platelet Drugs Aspirin MOA Uses Adverse Effects Clopidogrel MOA Uses Adverse effects Clopidogrel MOA Uses Adverse effects Direct Activated Clotting Factor Inhibitors Argatroban, Dabigatran Direct Factor 10-A Inhibitors Rivaroxaban & other "-xabans"	
	AVA	
Endocrine pharmacology	Thyroid dysfunction Diabetes Infertility Adrenal dysfunction Gonadal dysfunction	1

Per make

958 W

Page 20 of 21

Recommended Books:

- Clinical Anatomy by Regions Richard Snell latest edition
- Clinically Oriented Anatomy by Keith L. Moore latest edition
- Clinical Neuroanatomy by Richard Snell latest edition
- · General Anatomy by Laig Hussain Siddiqui
- Langman's Medical Embryology by T.W Sadler latest edition
- Medical Histology Text and Atlas by Laiq Hussain Siddiqui latest
- Junqueira's Basic Histology Text and Atlas
- Katzung's Basic and Clinical Pharmacology latest edition
- Robbins and Cotran Pathological Basis of Diseases latest edition
- Park's Textbook of Preventive and Social Medicine
- Public Health and Community Medicine by Muhammad Irfanullah Siddiqui latest edition
- Review of Medical Microbiology and Immunology by Warren Levinson latest edition
- Lippincott Illustrated Reviews: Biochemistry latest edition
- Harper's Illustrated Biochemistry latest edition
- Guyton And Hall Textbook of Medical Physiology latest editions
- Handbook of Behavioural Sciences by Mowadat H Rana latest edition

for my

/ +

9

Page 21 of 21