Dbios®

LIST No. 5

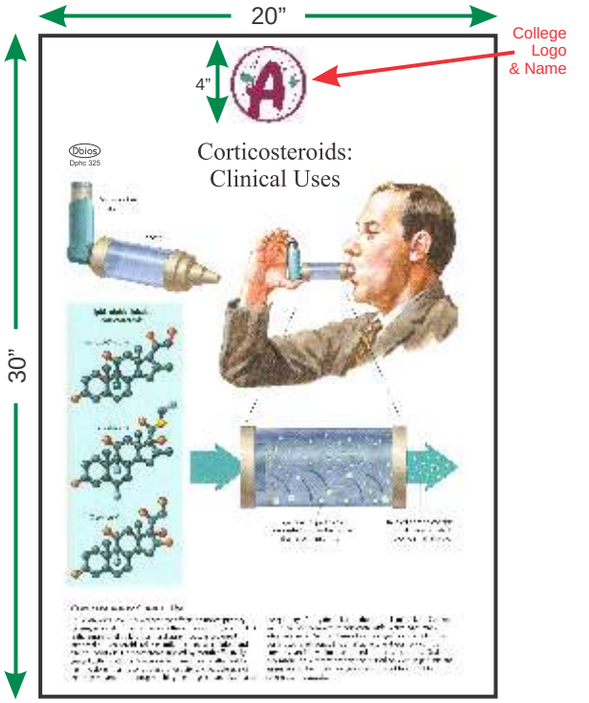
Pharmacology Charts & Models

w.e.f. 1st Aug. 2017

Charts (500)
Models (14)

Customised Charts

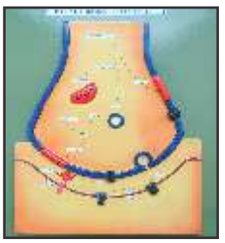
Size 20"x30" Laminated & Mounted Framed on Board



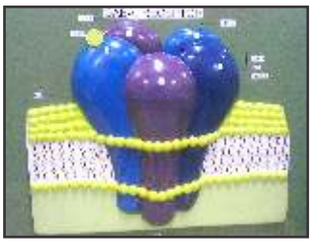
Models

PCM 01
ANTIMICROBIAL DRUG ACTION ON DIFFERENT SITES OF BACTERIAL CELL

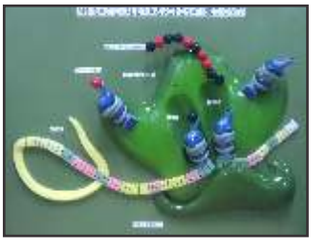
PCM 02
TYROSINE KINASE RECEPTOR



PCM 03
NEUROHUMORAL TRANSMISSION OF ACETYLCHOLINE



PCM 04
GABA$_A$ RECEPTOR



PCM 05
ANTIBACTERIAL DRUGS ACTION AT RIBOSOMES

PCM 01	ANTIMICROBIAL DRUG ACTION ON DIFFERENT SITES OF BACTERIAL CELL
PCM 02	TYROSINE KINASE RECEPTOR
PCM 03	NEUROHUMORAL TRANSMISSION OF ACETYLCHOLINE
PCM 04	GABA$_A$ RECEPTOR
PCM 05	ANTIBACTERIAL DRUGS ACTION AT RIBOSOMES
PCM 06	ADVERSE EFFECTS OF CORTICOSTEROIDS
PCM 07	SITE OF DRUG ACTION IN GLAUCOMA
PCM 08	DRUG SIDE EFFECTS
PCM 09	PAIN PATHWAYS
PCM 10	HYPERTENSION
PCM 11	DIABETES MELLITUS (Sulfonylureas, Biguanides)
PCM 12	ANTIDIARRHEAL DRUGS & THEIR ADVERSE EFFECTS
PCM 13	CORTI COSTERIODS ACTION IN BRONCHIAL ASTHMA & ADVERSE EFFECTS
PCM 14	HIV INFECTIONS, NRTIS & NON-NRTIs

Dbios Pharmacology

PHARMACOLOGY CHARTS

Size 20”x26”

Thick Laminated both side & attached with Plastic Strips
Thick Laminated & Framed on NU-Wood Board

DPhc 02 **Pharmacology of Central Nervous System** **(in 7 Charts)**
- A. Neurohumoral transmission in the C.N.S.
- B. General Anesthetics.
- C. Anti-epileptics drugs.
- D. Anti-Parkinsonian Drugs.
- E. Analgesics, Antipyretics and Anti-gout drugs.
- F. Narcotic analgesics and antagonists.
- G. C.N.S. Stimulants

DPhc 03 **Pharmacology of Cardiovascular System** **(in 5 Charts)**
- A. Digitalis and cardiac glycosides.
- B. Antihypertensive drugs.
- C. Antianginal and Vasodilator drugs.
- D. Antiarrhythmic drugs
- E. Antihyperlipedimic drugs

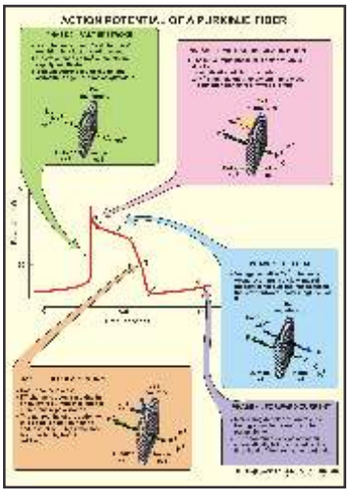
DPhc 04 **Drugs Acting on the Hemopoietic System** **(in 2 Charts)**
- A. Anticoagulants, Vitamin K and hemostatic agents.
- B. Fibrinolytic and anti-platelet drugs.

DPhc 05 **Drugs acting on urinary system** **(in 2 Charts)**
- A. Fluid and electrolyte balance
- B. Diuretics

DPhc 06 **Autocoids** **(in 2 Charts)**
- A. Histamine, 5- HT and their antagonists.
- B. Prostaglandins, thromboxanes and leukotrienes.

DPhc 09 **Pharmacology of Endocrine System** **(in 6 Charts)**
- A. Hypothalamic and pituitary hormones.
- B. Thyroid hormones and anti thyroid drugs.
- C. Insulin, oral hypoglycaemic agents and Glucagon.
- D. ACTH and corticosteroids
- E. Androgens and anabolic steroids
- F. Estrogens, progesterone and oral contraceptives

DPhc 21 Events during biofilm formation
DPhc 22 Identification and classification process of bacteria by culturing
DPhc 23 Schematic representation of immune defenses in the oral cavity.
DPhc 24 Schematic illustration of microbial complexes detected in dental plaque
DPhc 25 DNA Viruses
DPhc 26 RNA viruses
DPhc 27 Clinical appearance of viral infections in the oral cavity
DPhc 28 How oral microbes produce local inflammation to influence systemic pathology.
DPhc 29 Structure of viruses
DPhc 30 Morphology of Bacteria
DPhc 31 Schematic Diagram of an Immunoglobulin (IgG)
DPhc 32 Oral Candidiasis
DPhc 33 Hypersensitivity Reactions
DPhc 34 Malaria parasites
DPhc 35 HIV life cycle
DPhc 36 Bacterial cell wall
DPhc 37 Action of Sympathetic and Parasympathetic Nervous Systems on Effector Organs
DPhc 38 Therapeutic Indications for the Primary Anticonvulsant Agents
DPhc 39 Action Potential of a Purkinje Fiber
DPhc 40 Schematic Diagram of the Effects of Antiarrhythmic Drugs
DPhc 41 Metabolism of Plasma Lipoproteins
DPhc 42 Ventricular Function Curves in the Normal Heart, in Heart Failure (hf), and in Hf Treated with Digitalis
DPhc 43 Antiretroviral Drugs
DPhc 44 Types of Action of Drugs used to Treat peptic Ulcer Disease
DPhc 45 Mechanism of Action of Cyclosporine and Tacrolimus.
DPhc 46 Biosynthesis of Thyroid Hormones.
DPhc 47 Sites of Action of Diuretic Drugs in the Nephron
DPhc 48 Drug Administration from application to distribution in the body
DPhc 49 Drug administration dosage forms for parental, pulmonary, rectal or vaginal and cutaneous application
DPhc 50 Drug administration dosage forms for oral, ocular and nasal applications



DPhc 39 Action Potential of a Purkinje Fiber

Ask for List

PHARMACOLOGY CHARTS

Pharmacology Dbios

Size 20”x26”

Thick Laminated both side & attached with Plastic Strips

Thick Laminated & Framed on NU-Wood Board

DPhc 51 Pharmacokinetics (3 charts)
- (A) Routes of Drug administration
- (B) Absorption of Drugs, bioavailability & Drug distribution
- (C) Binding of Drugs to plasma proteins and Drug metabolism & Drug elimination

DPhc 52 Drug – Receptor interactions and pharmacodynamics

DPhc 53 The Automatic nervous system (2 charts)
- (A) Introduction, efferent neurons, action of sympathetic and parasympathetic nervous system on effectororgans
- (B) Functions of parasympathetic nervous system, chemical signaling between cells and second messenger systems in intracellular response

DPhc 54 Cholinergic Agonists (2 charts)
- (A) Overview, the cholinergic neuron
- (B) Cholinergic receptors, direct acting cholinergic agonists, anticholinesterases (Reversible and irreversible)

DPhc 55 Cholinergic Antagonists (2 charts)
- (A) Cholinergic antagonists, site of actions of cholinergic antagonists
- (B) Onset and duration of action of Neuromuscular blocking agents, mechanism of action of depolarizing neuromuscular blocking drugs

DPhc 56 Adrenergic agonists (3 charts)
- (A) Overview, site of action of adrenergic agonists, synthesis and release of norepinephrine from the adrenergic neuron
- (B) Types of adrenergic receptions, major effects by α and β adrenoceptors, structures of important adrenergic agonists.
- (C) Cardiovascular effects of IV. Of low doses of epinephrine norepinephrine isoproterenol, effects of inhaled adrenergic agonists

DPhc 57 Adrenergic Antagonists (2 charts)
- (A) Adrenergic blockers, covalent inactivation of α adrenoreceptior by phenoxy benzamine, actions of propanolol and other β-blockers
- (B) Comparison of agonists antagonists and partial agonists of β-adrenoreceptors, some clinical applications of β-blockers, summary of β-adrenergic antagonists

DPhc 58 Treatment of Neurodegenerative Diseases (2 charts)
- (A) Summary of antiparkinson & anti-alzeheimer drugs, summary of some neurotransmitters of CNS Synaptic potentials (Excitatory and inhibitory pathways)
- (B) Overview of Parkinson disease, Drugs used in Parkinson disease effects of entacapone on dopa concentration in the CNS.

Dphc 59 Anxiolytic and hypnotic drugs
- (A) Summary of anxiolytic and hypnotic drugs, benzodiazepine GABA chloride ion channel complex therapentic disadvantages and advantages of anxiolytic and hypnotic agents

DPhc 60 Central Nervous system Stimulants
- (A) CNS stimulants mechanism of action of cocaine amphetamine and cannabinoid receptor

DPhc 61 Anesthetics
Summary of anesthetics, components of balanced anestheria, inodulation of a ligand-gated membrane channel and therapeutic disadvantages and advantages of some anesthetic agents.

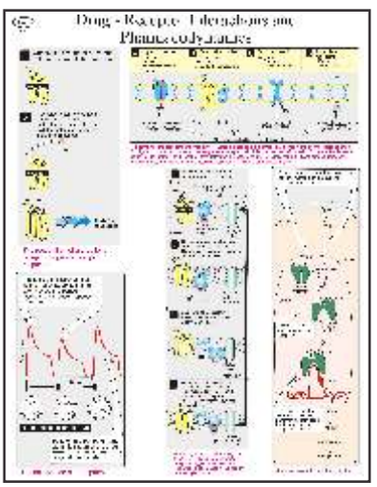
DPhc 62 Antidepressant Drugs
Summary of antidepressants, mechanism of action of SSRI and TCA drugs mechanism of action of monoamine oxidase inhibitors

DPhc 63 Neuroleptic Drugs
Summary of neuroleptic drugs, dopamine blocking actions of neuroleptic drugs, mechanism of action of neuroleptic drugs

DPhc 64 Opioid Analgesics and Antagonists
Summary of opioid analgesics, mechanism of action of μ-opioid receptor agonists competition of naloxone with opioid agonists

DPhc 66 Treatment of Heart Failure (3 charts)
- (A) Summary of Drugs used to treat Heart Failure Physiology of Muscle Contraction action potential of a Purkinje fiber.
- (B) Ion movements during the contraction of cardiac muscle cardiovascular consequences of heart failure, effects of angiotensin converting enzyme inhibitors.
- (C) Mechanism of action of cardiac glycosides ventricular function curves in the normal heart in heart failure, and in HF treated with digitalis, sites of action by β-adrenergic agonists on heart muscle.

DPhc 67 Antiarrhythmic Drugs (3 charts)
- (A) Summary of antiarrhythmic drugs Therapeutic indications for some commonly encountered arrhythmias, Schematic representation of reentry.
- (B) Action of antiarrhythmic drugs, schematic diagram fo the effects of clean IA, IB, IC agents
- (C) Schematic diagram of the effects of clan III & clan IV agents



Dphc 52

Size 20”x26”

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DPhc 68 Antianginal Drugs

Summary of antianginal drugs, effects of intrates and nitrites on smooth muscle, blood flow in a coronary artery partially blocked with atherosclerotic plaques, treatment of angina in patients with concomitant diseases

Dphc 69 Antihypertensive Drugs (2 charts)

(A) Summary of antihypertensive drugs, major factors influencing blood pressure, response of the autonomic nervous system and the renin-angiotensin system.

(B) Treatment of hypertension in patients with concomitant diseases, actions of thiazide diuretics, action of b-adrenoceptor blocking agents, effects of ACE inhibitors, action of calcium - channel blockers, therapeutic applications of calcium channel blockers

DPhc 70 Drugs Affecting the Blood (3 charts)

(A) Summary of drugs used in treating dysfunctions of the blood, formation of a hemostatic plug

(B) Activation and aggregation of platelets, role of aspirin, mechanism of action of ticlopidine and clopidogrel, formation of a fibrin clot, mechanism of action of heparin

(C) Mechanism of action of warfarin, drugs affecting the anticoagnlant effects of warfarin, mechanism of action of streptokinase, causes and consequences

Dphc 71 Antihyperlipidemic Drugs (2 charts)

(A) Summary of antihyperlipidemic drugs, metabolism of plasma lipoproteins and related genetic diseases

(B) Inhibition of HMG-CoA reductase by the statin drugs, inhibition of lipolysis in adipose tissue by niacin, activation of lipoprotein tipase by gemfibrozil, bile acid-binding resins

DPhc 72 Diuretic Drugs

Summary of diuretic drugs, sites of action of the diuretic drugs, sites of transport of solutes and water along the nephron, role of carbonic anhydrase in sodium retention by epithelial cells of renal tubule

DPhc 73 Hormones of the Pituitary and Thyroid (2 charts)

(A) Some hormones and drugs affecting the hypothalamus, pituitary and thyroid, Hypothalamic and anterior pituitary hormones, secretions and actions of adreno-corticotropic hormone

(B) Secretions of FSH and LH, actions of oxytocin and vasopression, biosynthesis of thyroid hormones

DPhc 74 Insulin and oral Hypoglycemic Drug (3 charts)

(A) Summary of hypoglycemic agents, comparison of Type 1 and Type 2 diabetes, major factors contributing to hyperglycemia, Duration of type 2 diabetes.

(B) Onset and duration of action of human insulin and insulin analogs, duration of action of some oral hypoglycemic agents, drugs interacting with sulfonyl-urea drugs.

(C) Summary of oral hypoglycemic agents

DPhc 75 Estrogens and Androgens

Summary of sex hormones, benefits associated with postmenopausal estrogen replacement, regulation of secretion of testosterone, administration and fate of and rogens

Dphc 76 Adrenocorticosteroid Hormones

Summary of adrenal corticosteroids, regulation of corticosteroid secretion, gene regulation by glucocorticoids, pharmacologic effects

Dphc 77 Drugs affecting the Respiratory system (2 charts)

(A) Summary of drugs affecting the respiratory system, Comparison of bronchi of normal and asthmatic individuals. Treatment of asthma. Pharmacokinetics of inhaled glucocorticoids, Effect of spacer on the delivery of inhaled aerosol.

(B) Sites of action of leukotriene-modifying drugs, Treatment of stable chronic obstructive pulmonary disease (COPD). FEV_1 = forced expiratory volume in one second.

DPhc 78 Gastrointestinal and Antiemetic Drugs. (2 charts)

(A) Summary of drugs used to treat peptic ulcer disease, Helicobacter pylori in association with gastric mucosa effects of acetylcholine, histamine, prostaglandin E2, and gastrin on gastrin acid secretion, administration and fate of cimetidine, drug interactions with cimetidine.

(B) Comparison of emetic potential of anticancer drugs, summary of drugs used to treat chemotherapy-induced nausea and vomiting, potencies of antiemetic drugs, summary of drugs used to treat diarrhea and constipation.

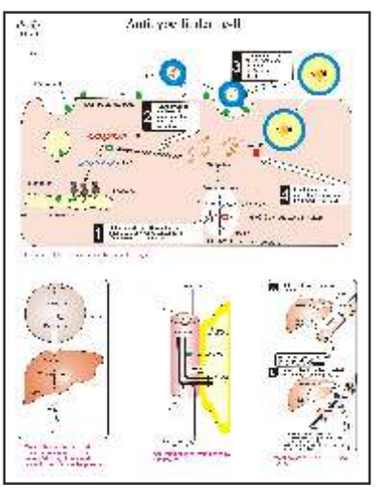
DPhc 79 Erectile dysfunction, osteoporosis and obesity

Summary of drugs used in the treatment of erectile dysfunction, osteoporosis and obesity, mechanism of penile erection, effect of phosphodiesterase inhibitors on cyclic guanosine monophosphate (cGMP) changes in bone morphology seen in osteoporosis

DPhc 80 Principles of Antimicrobial therapy (2 charts)

(A) Some laboratory techniques that are useful in diagnosis of microbial diseases Determination of minimum inhibitory concentration and minimum bactericidal concentratiion of an antibiotic, essential features of blood-brain barrier, schematic representation of blood-brain barrier.

(B) Bar chart showing the six most commonly used drug families, color-coded representation of medically important microorganisms Mechanisms of resistance to antibiotics, sites of antimicrobial actions



Dphc 71B

Size 20"x26"

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Dphc 81 Inhibitors of cell wall synthesis (4 charts)

(A) Summary of antimicrobial agents affecting cell wall synthesis, Structural features of β-lactam antibiotics, bacterial cell wall of gram-positive bacteria.

(B) Typical Therapeutic Applications of pencillin G ampicillin, Stability of the penicillins to acid, administration & fate of penicillin.

(C) Summary of Therapeutic applications of cephalosporins, Administration and fate, Characteristics of some clinically useful cephalosporins.

(D) Structural features of imipenem and Aztreonam antimicrobial spectrum of imipenem, vancomycin Administration & fate of vancomycin.

DPhc 82 Protein Synthesis Inhibitors (4 charts)

(A) Summary of protein synthesis inhibitors, Typical therapeutic applications of tetracylines, Administration and fate of tetracycline, M.O.A of tetracycline

(B) Mechanism of action of amino glycosides, typical therapeutic applications of aminoglycosides, Administration and fate of aminoglycosides.

(C) Macrolides: M.O.A of erythromycin and clindamycin. Typical therapeutic applications of macrolides. Administration and fate of macrolide Adverse effects of macrolide.

(D) Inhibition of the cytochrome P450 system by erythromycin, Administration and fate of chloramphenicol, inhibition of the cytochrome P450 system by Chloramphenicol, Admin & fate of clindamycin, MOA of linezoid, Antimicrobial spectrum of linezoid.

DPhc 83 Quinolones, Folic Acid antagonists and urinary tract Antiseptics. (3 charts)

(A) Summary of quinolones, Action of type II DNA topoisomerase, Summary of antimicrobial spectrum of quinolones, Typical therapeutic applicationsof ciprofloxaxin Administration & fate of fluoroquinolones.

(B) Inhibition of tetrahydrofolate synthesis by sulfonamides and trimethoprim, admin and fate of sulfonamides, typical therapentic applications of co-trimoxazole, admin and fate of co-trimoxazole, formation of formaldehyde.

(C) Inhibition of tetrahydrofolate synthesis by sulfonamides and trimethoprim, Admin and fate of sulfonamides, Typical therapeutic applications of co-trimoxazole, Admin and fate of co-trimoxazole, Formation of formaldehyde.

DPhc 84 Antimycobacterial Drugs

Summary of drugs, Administration & fate of Isoniazid, Rifampin, Therapeutic margins for antitubercular drugs.

DPhc 85 Antifungal Drugs

Antifungal drugs, Prugs for subcutaneous and systemic mycotic infections

DPhc 86 Antiprotozoal Drugs

Summary of antiprotozoal agents, Fate of metronidazole, diloxanide, primaquine Action of chloroquine, fate of chloroquine melarsoprol pentamidine, stibogluconate.

Dphc 87 Anthelmintic Drugs (2 charts)

(A) Summary of nematode infections & therapy

(B) Characteristics of and therapy for commonly encountered trematode infections, cestode infections.

Dphc 88 Antiviral Drugs (5 charts)

(A) Antiviral drugs, Fate of oseltamivir, zanamivir. Amantadine rimantadine ribavirin.

(B) Action of acyclovir, fate of Acyclovir, Cidofovir, Foscarnet.

(C) Administration and fate of ganciclovir penciclovir and famciclovir antiviral agents.

(D) Drugs used to prevent HIV from replicating HAART.

(E) Admin and fate of zidovudine, didanosine, zalcitabine and stavudine, tenofovir, nevirapine, delavirdine

DPhc 89 Anticancer Drugs (7 charts)

(A) Summary, effects of various treatments

(B) Effects of chemotherapeutic agents on mammalian cells, mechanism of action of methotrexate.

(C) Action of 6-mercaptopurine, fate of 6-mercaptopurine action of 5-FU. Fluorouracil, capecitabine.

(D) Administration and fate of cytarabine, action of gemcitabine, fate of dactinomycin Doxorubicin.

(E) Alkylation of guanine fate of cyclophosphamide lomustine temozolomide.

(F) Action of microtubule inhibitors, steroid hormones,

(G) Fate of cirplatin action of DNA Topoisomerases Etoposide.

Dphc 90 Immunosuppessive Drugs (2 charts)

(A) Immunosuppressant drugs, selected cytokines M.D.A. cyclosporine and tacrolimus.

(B) Sites of action of common immunosuppressants

DPhc 91 Anti-inflammatory Drugs (3 charts)

(A) Summary of anti-in-Hammatory drugs, COX-1 and COX-2, synthesis of prostaglandins and leukotrienes.

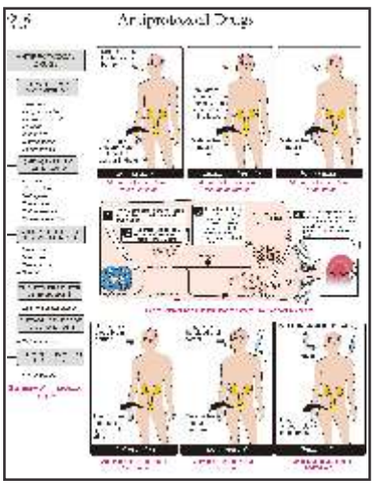
(B) Metabolism of aspirin, action of NSAIDs, Renal effect of aspirin, effects of salicylate drugs Interacting with salicylates.

(C) Metobolism of acetaminophen, Site of leflunomide Role of uric acid in inflammation of gout.

DPhc 92 Autacoids and Antagonists (2 charts)

(A) Summary of drugs affecting autacoids Biosynthesis and action of histamine, Effects of H1 antihistamines.

(B) Drugs for the treatment and prophylaxis of migraine



Dphc 86

Dbios Pharmacology

PHARMACOLOGY CHARTS

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Major Ways in Which Drugs Work
- Dphc 102 Eliminate External and Internal Threats
- Dphc 104 Replenish or Neutralize Endogenous Chemicals
- Dphc 105 Modulate Physiologic Processes

Chemical Communication
- Dphc 106 Chemical Transmission at the Synapse
- Dphc 107 Synapse Morphology

Pharmacodynamics
- Dphc 108 Receptors and Signaling
- Dphc 109 Receptor Subtypes
- Dphc 110 Agonists
- Dphc 111 Antagonists
- Dphc 112 Stereochemistry and 3-Dimensional Fit
- Dphc 113 Receptor-Effector Coupling
- Dphc 114 Signal Transduction and Cross Talk
- Dphc 115 Second-Messenger Pathways
- Dphc 116 Ligand-Gated Ion Channels
- Dphc 117 G Protein-Coupled Receptors
- Dphc 118 Trk Receptors
- Dphc 119 Nuclear Receptors
- Dphc 120 Up-regulation and Down-regulation of Receptors
- Dphc 121 Dose-Response Curves
- Dphc 122 Potency
- Dphc 122a Efficacy
- Dphc 123 Inverse Agonists
- Dphc 124 Antagonists: Surmountable (reversible) and Nonsurmountable (Irreversible)

Pharmacokinetics
- Dphc 125 Routes of Administration
- Dphc 126 First-Pass Effect
- Dphc 127 Membrane Transport
- Dphc 128 Distribution
- Dphc 129 Barriers
- Dphc 130 Metabolism (Biotransformation) of Drugs
- Dphc 131 Cytochrome P-450 (CYP 450) Enzymes
- Dphc 132 Metabolic Enzyme Induction and Inhibition
- Dphc 133 Elimination

Organization of the Nervous System
- Dphc 136 Organization of the Nervous System
- Dphc 137 Action of Drugs on Nerve Excitability

Somatic Nervous System
- Dphc 138 Interface of the Central and Peripheral Nervous Systems and Organization of the somatic Division.
- Dphc 139 Neuromuscular Transmission
- Dphc 140 Nicotinic Acetylcholine Receptor
- Dphc 141 Physiology of the Neuromuscular Junction
- Dphc 142. Pharmacology of the Neuromuscular Junction
- Dphc 143 Mechanism of Action of Acetylcholinesterase Inhibitors
- Dphc 144 Neuromuscular Blocking Agents: Nondepolarizing and Depolarizing

Autonomic Nervous System
- Dphc 145 Autonomic Nervous System: Schema
- Dphc 146 Sympathetic Fight or Flight Response
- Dphc 147 Cholinergic and Adrenergic Synapses
- Dphc 148 Example of Cholinergic and Adrenergic Drug Treatment: Glaucoma
- Dphc 149 Cholinergic Receptors
- Dphc 150 Cholinergic Drugs
- Dphc 152 Example of Cholinergic Drug Treatment: Myasthenia Gravis
- Dphc 153 Adrenergic Receptors
- Dphc 154 Adrenergic Drugs
- Dphc 155 Drugs That Act on the Autonomic Nervous System
- Dphc 156 Drug Side Effect

Introduction to the CNS and Drug Action
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- Dphc 160 Functional Correlations and Visualization of Brain Structures
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- Dphc 162 Excitatory and Inhibitory Postsynaptic Potentials
- Dphc 163 Central Nervous System Neurotransmitters, Receptors, and Drug Targets

Sedative-Hypnotic Drugs
- Dphc 164 GABA4 Receptor Complex and Sedative-Hypnotic Drugs

Anxiolytic Agents
- Dphc 165 Clinical Anxiety
- Dphc 166 Anxiolytic Agents

Antiepileptic Agent
- Dphc 167 Causes of Seizures and Their Treatment
- Dphc 168 Epilepsy: Generalized Seizures and Status Epilepticus
- Dphc 169 Epilepsy: Partial and Absence Seizures

Antidepresessants
- Dphc 171 Clinical Depression
- Dphc 172 Antidepressant's mechanisms of Action

Drugs Affecting Bipolar Disporder and OCD
- Dphc 173 Bipolar Disorder and Compulsive Behavior

Antipsychotic Agents
- Dphc 174 Psychosis and Dopamine Pathways

Drugs Affecting Movement Disorders and Other Neurodegenerative Disorders
- Dphc 175 Motor Tracts, Basal Ganglia, and Dopamine Pathways
- Dphc 177 Parkinsonism: Symptoms and Defect
- Dphc 178 Parkinsonism: Levodopa, Carbidopa, and Other Drugs
- Dphc 179 Huntington Disease and Tourette syndrome
- Dphc 180 Alzheimer Disease: Symptoms, Course, and Pathology
- Dphc 181 Alzheimer Disease: Cholinergic Involvement and Drugs
- Dphc 183 Stroke: Symptoms and Drug Treatment

CNS Skeletal Muscle Relaxants
- Dphc 184 Motor Neurons and Drugs

Analgesics and Anesthetics
- Dphc 185 Pain Pathways
- Dphc 186 Local Anesthetics: Spinal Afferents and Local Anesthetic Mechamisms of Action
- Dphc 187 General Anesthetics: Properties
- Dphc 188 Opioids: Endogenous Opioid Pathway
- Dphc 189 Opioids: Receptor-Transduction Mechaminsms
- Dphc 190 Nonopioids: NSAID's, Selective Cyclooxygenase-2 Inhibitors, and Acetaminophen
- Dphc 191 Sumatriptans and Reuptake Inhibitors

Drugs Used in Disorders of the Cardiovascular System

Cardiovascular System: Anatomy, Function, and Regulation of the Heart
- Dphc 194 Cardiovascular Function: Anatomy
- Dphc 195 Cardiovascular Function: Definition of Terms and Regulation
- Dphc 196 Role of Catecholamines in Heart Function
- Dphc 197 Sympathetic and Parasympathetic Regulation of Heart Function
- Dphc 198 Synthesis and Storage of Cathecholamines
- Dphc 199 Regulation of Norepinephrine Release
- Dphc 200 Inactivation of Norepinephrine

Ask for List

Anatomy charts & models, Pathology, Physiology, Nursing, FMT, OBG, PSM, Pharmacy charts List

Size 20"x26" **Thick Laminated both side & attached with Plastic Strips**
Thick Laminated & Framed on NU-Wood Board

Hypercholesterolemia and Atherosclerosis
Dphc 201 Hypercholesterolemia: Causes
Dphc 202 Hypercholesterolemia: Pharmacologic Therapy

Angina
Dphc 203 Angina Overview
Dphc 204 Nitrates for Angina Treatment: Classes, Administration Routes, Pharmacology, and

Adverse Effects
Dphc 205 Nitroglycerin in Angina Treatmet
Dphc 206 Nitroglycerin: Mechanism of Action
Dphc 207 Calcium Channel Antagonists
Dphc 208 Drug Summary of Angina

Heart Failure
DPHC 209 Heart Failure Overview
DPHC 210 Heart Failure Treatment
DPHC 211 Heart Failure Treatment b-Adrenergic Stimulators and Blockers
DPHC 212 Heart Failure Treatment Cardiac Clycosides

Arrhythmias
DPHC 213 Cardiac Arrhythmias: General
DPHC 215 Cardiac Arrhythmias: Treatment
DPHC 217 Cardiac Arrhythmias: Drugs Classification

Hypertension
Dphc 218 Hypertension Overview
Dphc 219 Hypertension Causes
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Dphc 221 Hypertension Treatment: Angiotensin-Converting Enzyme Inhibitors
Dphc 222 Hypertension Treatment: b and a Blokers
Dphc 223 Hypertension Treatment: Minoxidil
Dphc 224 Hypertension Treatment: Clonidine
Dphc 225 Hypertension in Elderly Patients
Dphc 226 Pheochromocytoma-Induced Hypertension
Dphc 227 Hypertension in Cushing Syndrome

Peripherial Vascular Disease
Dphc 228 Peripheral Vascular Disease

Drugs Used in Disorders of The Endocrine System

Hypothalamic and Pituitary Disorders
Dphc 230 Regulation of Hypothalamic and Pituitary Hormones
Dphc 232 Hypopituitarism
Dphc 233 Growth Hormone Deficiency and Treatment
Dphc 234 Growth Hormone Excess (Acromegaly) and Treatment

Thyroid Disordes
Dphc 235 Thyroid Hormones
Dphc 236 Thyroid Hormones: Synthesis, Release, and Regulation
Dphc 237 Hypothyroidism
Dphc 238 Hypothyroidism: Treatment of Choice
Dphc 239 Liothyronine and T4/T3 Combinations
Dphc 240 Hyperthyrodism
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Dphc 242 Thioamides
Dphc 243 Thioamides: Adverse Effects
Dphc 244 Radioactive Iodine
Dphc 245 Iodide
Dphc 246 Adrenergic Antagonists

Corticosteroids and Adrenocortical Dysfunction
Dphc 247 Regulation of Adrenal Hormones
Dphc 248 Mineralocorticoids and Glucocorticoids
Dphc 249 Corticosteroids
Dphc 250 Cushing Syndrome
Dphc 251 Ketoconazole
Dphc 252 Metyrapone
Dphc 253 Aminoglutethimide
Dphc 254 Addison Disease, or Primary Adrenal Insufficency

Diabetes Mellitus
Dphc 255 The Pancreas and Insulin Production
Dphc 256 Insulin Secretion
Dphc 257 Lack of Insulin
Dphc 258 Type 1 Diabetes Mellitus
Dphc 259 Type 2 Diabetes Mellitus
Dphc 260 Insulin Therapy
Dphc 261 Reactions of Insulin: Hypoglycemia and Adipose Tissue Changes
Dphc 262 Sulfonylureas
Dphc 263 Biguanides
Dphc 264 Meglitinides
Dphc 265 a-glucosidase Inhibitors
Dphc 266 Thiazolidinediones
Dphc 267 Thiazolidinediones: Clinical Rationale and Adverse Effects

Drugs Used in Disorders of The Gastrointestinal System

Function and Regulation of the GI System
Dphc 270 Enteric Nervous System
Dphc 271 Integration of the Autonomic and Enteric Nervous Systems
Dphc 272 Gastrointestinal Motility
Dphc 274 Control of Peristalsis
Dphc 275 Hormones of the Gastrointestinal Tract
Dphc 276 Parietal Cell Function Regulation
Dphc 277 Pancreatic Secretion
Dphc 278 Defecation
Dphc 279 Protein Digestion
Dphc 280 Fat Digestion

Disorders of Colonic Motility
Dphc 281 Colonic Motility and Treatment of Diarrhea
Dphc 282 Antidiarrheal Drugs and Their Adverse Effects
Dphc 283 Causes of Constipation
Dphc 284 Treatment of Constipation

Functional Disorder of the Large Intestine
Dphc 285 Treatment of Irritable Bowel Syndrome

Protozoal
Dphc 287 Giardiasis
Peptic Ulcer
Dphc 288 Helicobacter pylori infection Overview
Dphc 289 Treatment of Helicobacter pylori Infection
Dphc 290 Peptic Ulcer Treatment

Gastroesophageal Reflux Disease
Dphc 291 Gastroesophageal Reflux Disease Overview
Dphc 292 Gastroesophageal Reflux Disease Treatment

Pancreatitis
Dphc 293 Pathologic Features of Gallstones

Cholelithiasis
Dphc 295 Pathologic Features of Gallstones
Dphc 296 Gallstone Pathogenesis and Treatment

PHARMACOLOGY CHARTS

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Liver Pathogenesis and Pathology
Dphc 297 Liver Function
Dphc 298 Bilirubin Production and Excretion
Dphc 299 Cirrhosis
Dphc 300 Ascites

Nausea and Vomiting
Dphc 302 Physiology of Emesis
Dphc 304 Antiemetics

Drugs used in Disorders of the Respiratory system

Respiration: Introduction to Physiology and Pathology
Dphc 306 Respiration Overview
Dphc 307 Respiratory Diseases

Allergy
Dphc 308 Allergy
Dphc 309 Leukocyte Function
Dphc 310 Allergic Rhinitis

Asthma
Dphc 311 Introduction to Asthma
Dphc 312 Extrinsic and Intrinsic Asthma
Dphc 314 Asthma Pharmacotherapy
Dphc 315 Ati-IgE Antibodies
Dphc 316 Mast cell Degranulation Blockers
Dphc 317 Bronchodilators
Dphc 318 Methylxanthines
Dphc 319 Methylxanthine: Adverse Effects
Dphc 320 β-Adrenergic Agonists

Cough
Dphc 329 Cough
Dphc 330 Cough Suppressants (Antitussive Agents)

Chronic Obstructive Pulmonary Disease
Dphc 331 Chronic Obstructive Pulmonary Disease
Dphc 332 Emphysema
Dphc 333 Emphysema Causes
Dphc 334 Inherited Emphysema
Dphc 335 Chronic Bronchitis
Dphc 336 COPD: General Treatment Measures
Dphc 337 COPD: Specific Drug Treatments

Restrictive Pulmonary Disease
Dphc 338 Restrictive Pulmonary Disease
Dphc 339 Pneumonia
Dphc 341 Viral Pneumonia
Dphc 343 Bacterial Pneumonia

Drugs used in Disorders of the Reproductive System

Organization and Function of the Reproductive System
Dphc 346 Organization of the Reproductive System
Dphc 347 Regulation of Estrogen and Testosterone
Dphc 348 Event of the Normal Menstrual Cycle

Contraception
Dphc 349 Combination Oral Contraceptives
Dphc 350 Major Adverse Effects of Combination Oral Contraceptives
Dphc 351 Estrogen and Coagulation
Dphc 352 Progestin-Only Contraceptives
Dphc 353 The Morning-After Pill
Dphc 354 The Abortion Pill

Endometriosis and Treatment
Dphc 355 Endometriosis
Dphc 356 Danazol
Dphc 357 Gonadotropin-Releasing Hormone Agonists, Combination oral Contraceptives, and Progestin

Postmenopausal Hormone Changes and Therapy
Dphc 358 Estrogen Decline
Dphc 359 Vasomotor Symptoms
Dphc 360 Genitourinary Atrophy
Dphc 361 Osteoporosis and Estrogen
Dphc 362 Role of Progestins in Hormone Replacement Therapy
Dphc 363 Route of Hormone Administration
Dphc 364 General Advese Effects
Dphc 365 Cardiovascular and Neurologic Risks
Dphc 366 Cancer Risks

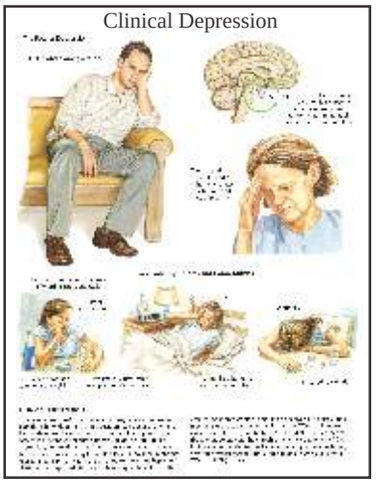
Selective Estrogen Receptor Modulators and Antiestrogens
Dphc 367 Selective Estrogen Receptor Modulators
Dphc 368 Antiestrogens

Hypogonadism
Dphc 369 Hypogonadism
Dphc 370 Hypogonadism Treatment and Effects

Drugs used to Affects Renal Function
Organization and Functions of the Renal System

Dphc 372 Macroscopic Anatomy
Dphc 373 The Nephron
Dphc 374 Blood Vessels Surrounding Nephrons
Dphc 375 The Glomerulus

Dphc 376 Practical Application: Measuring the Glomerular Filtration Rate
Dphc 377 Tubular Segments
Dphc 378 Ion and Water Reabsorption
Dphc 379 Bicarbonate Reabsorption
Dphc 380 Potassium Excretion



Dphc 171

Ask for List

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Volume Regulation
Dphc 381 Antidiuretic Hormone
Dphc 382 Renin-Angiotensin-Aldosterone System

Diuretics
Dphc 383 General Considerations: Volume Homeostasis
Dphc 385 Mercurial Diuretics
Dphc 386 Carbonic Anhydrase Inhibitors
Dphc 387 Thiazide Diuretics
Dphc 388 Potassium-Sparing Agents
Dphc 389 Loop (High-Ceiling) Diuretics
Dphc 390 Osmotic Agents
Dphc 391 Summary of Therapeutics

Urinary Incontinence
Dphc 393 Urinary Incontinence

Urinary Tract Calculi
Dphc 394 Urinary Tract Calculi (Kidney Stones)

Renal Insufficiency and Dialysis
Dphc 395 Effect of Renal Insufficiency on Drug Action
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Drugs in Infectious Disease
Bacterial Infections: Antibiotics
Dphc 398 Classification of Antibiotics
Dphc 399 Definitions: Bacteriostatic Versus Bactericidal
Dphc 400 Spectrum of Activity
Dphc 401 Mechanisms of Resistance
Dphc 402 Examples of Resistance
Dphc 403 Natural Penicillins: Penicillin G and Penicillin V
Dphc 404 Amiopenicillins; Amoxicillin and Ampicillin
Dphc 405 Antipseudomonal Penicillins: Carbenicillin, Piperacillin, and Ticarcillin
Dphc 406 b-Lactamase Inhibitors
Dphc 407 b-Lactamase- Resistant Penicillins: Cloxacillin, Dicloxacillin, Oxacillin and Nafcillin
Dphc 408 Adverse Effects of Penicillins
Dphc 409 Cephalosporins
Dphc 410 Carbapenems: Imipenem-Cilastatin, Ertapenem and Meropenem
Dphc 411 Monobactams: Aztreonam
Dphc 412 Vancomycin
Dphc 413 Vancomycin Treatment Difficulties: Resistance and Adverse Effects
Dphc 414 Tetracyclines
Dphc 415 Aminoglycosides
Dphc 416 Macrolides: Erythromycin, Azithromycin, and Clarithromycin
Dphc 417 Clindamycin
Dphc 418 Quinolones
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Dphc 421 Quinupristin/Dalfopristin
Dphc 422 Linezolid
Dphc 423 Sulfonamides

Fungal Infections: Antifungal Drugs
Dphc 424 Nature of Fungal Infections and Therapy
Dphc 425 Amphotericin B
Dphc 426 Azole Antifungal Agents and Other Antifungal Agents

Viral Infections and Antiviral Agents
Dphc 427 Nature of Viral Infections
Dphc 428 Herpesviruses
Dphc 429 Acyclovir and Famciclovir
Dphc 430 Ganciclovir
Dphc 431 Influenza and Its Treatment

HIV Infection: Antiretroviral Agents
Dphc 432 HIV Infection
Dphc 433 Nucleoside Reverse Transcriptase Inhibitors (NRTIs) and Non-NRTIs
Dphc 434 Protease Inhibitors
Dphc 435 Other Antiretroviral Agents for AIDS: Tenofovir and Enfuvirtide

Drugs used in Neoplastic Disorders
Introduction to chemotherapy
Dphc 438 Cell Cycle
Dphc 439 Combination Chemotherapy
Dphc 440 Adverse Effects of Chemotherapy

Antimetabolites
Dphc 441 Folate Analogs: Methotrexate
Dphc 442 Purine Analogs: Mercaptopurine and Thioguanine
Dphc 443 Pyrimidine Analogs : 5- Fluorouracil
Dphc 444 Pyrimidine Analogs: Capecitabine
Dphc 445 Pyrimidine Analogs: Cytarabine and Fludarabine
Dphc 446 Pyrimidine Analogs: Gemcitabine
Dphc 447 Substituted Ureas: Hydroxyurea

Alkylating Agents
Dphc 448 Nitrogen Mustards: Mechlorethamine and Melphalan
Dphc 449 Cyclophosphamide and Ifosfamide
Dphc 450 Nitrosoureas: Carmustine and Lomustine
Dphc 451 Platinum Compounds: Cisplatin, Carboplain and Oxaliplatin

Microtubule Inhibitors
Dphc 452 Vinca Alkaloids: Vincristine, Vinblastine and Vinorelbine
Dphc 453 Taxanes

Antibiotics
Dphc 454 Anthracyclines: Doxorubicin and Daunorubicin

Hormonal Therapies
Dphc 455 Estrogen Antagonists: Tamoxifen and Toremifene
Dphc 456 Aromatase Inhibitors: Anastrozole Letrozole and Exemestane
Dphc 457 Gonadotropin-Releasing Hormone Analogs: Leuprolide and Goserelin
Dphc 458 Antiandrogens: Flutamide, Bicalutamide and Nilutamide

Monoclonal Antibodies
Dphc 459 Unconjugated Antibodies: Trastuzumab, Alemtuzumab and Rituximab
Dphc 460 Conjugated Antibodies: Ibritumomab Tiuxetan and Tositumomab and Iodine I 131 Tositumomab

Newer Miscellaneous Agents
Dphc 461 Imatinib Mesylate
Dphc 462 Gefinitib
Dphc 463 Bortezomib

Drugs used for skin Disorders
Dphc 466 Anatomy of the Skin

Hair Loss
Dphc 467 Alopecia

Blister Diseases
Dphc 468 Bullous (Blister) Skin Diseases

Eczema
Dphc 469 Common Dermatoses Including Eczema

Dbios Pharmacology

PHARMACOLOGY CHARTS

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Psoriasis
Dphc 470 Psoriasis

Mite and Louse Infestations
Dphc 471 Scabies and Pediculosis

Hives
Dphc 472 Urticaria

Vitamins: Deficiencies and Drug Interactions

Fat-Solube Vitamins
Dphc 474 Deficiency of Vitamin A (Retinol) and Other Fat-Soluble Vitamins

Water-Soluble Vitamins
Dphc 475 Deficiency of Thiamine (B1) and Other B Vitamins
Dphc 476 Niacin or Nicotine Acid Deficiency (Pellagra)
Dphc 477 Vitamin C Deficiency (Scurvy)

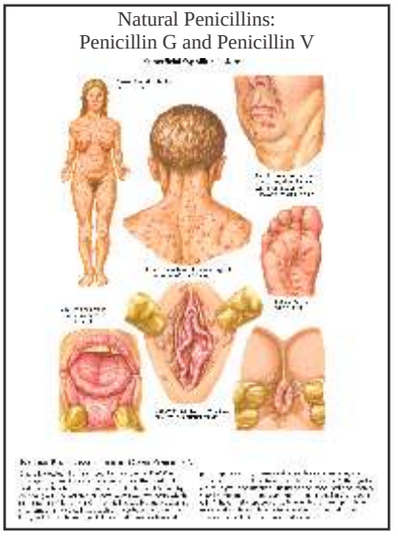
Vitamin-Drug Interactions
Dphc 478 Fat-Soluble Vitamin-Drug Interactions
Dphc 479 Water- Soluble Vitamin-Drug Interactions

Drug Allergy, Abuse, and Poisoning or Overdose

Drgu Allergy
Dphc 482 Allergic Reactions to Drugs
Dphc 483 Type I (Acute, Anaphylactic) Reactions
Dphc 484 Type II (Cytotoxic, Autoimmune) Reactions
Dphc 485 Type III (Immune Complex, Serum Sickness, Arthus) Reactions
Dphc 486 Type IV (Cell-Mediated, Delayed-Hypersensitivity, Contact Dermatitis) Reactions

Drug Abuse
Dphc 487 Brain Reward Circuit
Dphc 488 Ethanol: Deleterious Effects
Dphc 489 Ethanol Abuse: Treatment
Dphc 490 Withdrawal: Opioids, Benzobiazepines and Barbiturates

Poisoning or Overdose
Dphc 492 Sympathomimetic Drugs
Dphc 493 Cholinergic Drugs
Dphc 494 Anticholinergic Drugs
Dphc 495 Serotonergics
Dphc 496 Opioids
Dphc 497 Over-the-Counter Products
Dphc 498 Management of Poisoning and Overdose



Dphc 403

History of Medicine

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History of Medicine -I


History of Medicine -II


History of Medicine -III

Set of 10 Charts

History of Medicine -I
History of Medicine -II
History of Medicine -III
History of Medicine -IV
History of Medicine -V
History of Medicine -VI
History of Medicine -VII
History of Medicine -VIII
History of Medicine -IX
History of Medicine -X

Ask for List

MEDICINAL HERBS PHOTOGRAPHS

Pharmacology Dbios

Size 12”X18”Approx

CH 2600 PHARMACIST'S OATH
CH 2601 BAHERA
CH 2602 ARCHI OIL
CH 2603 PAPAIN
CH 2604 SHANKHPUSHPI
CH 2605 SHARK LIVER OIL
CH 2606 COTTON
CH 2607 ASWAGANDHA
CH 2608 TAMARINDS
CH 2609 SENNA LEAVES
CH 2610 BRAHMI
CH 2611 PUNARNAVA
CH 2612 RHUBARB
CH 2613 NEEM OIL
CH 2614 AJOWAN
CH 2615 STROPHANTHUS
CH 2616 BAEL
CH 2617 ACACIA (INDIAN GUM)
CH 2618 COCOA
CH 2619 TURMERIC
CH 2620 BITTER ORANGE PEEL
CH 2621 NUX-VOMICA
CH 2622 BLACK PEPPER
CH 2623 OPIUM
CH 2624 JATAMANSI
CH 2625 CANNABIS
CH 2626 VINCA
CH 2627 ISAPGOL (ISPAGHULA)
CH 2628 GINGER
CH 2629 CINNAMON
CH 2630 VASAKA
CH 2631 CELERY
CH 2632 ARJUNA BARK
CH 2633 VALERIAN
CH 2634 CLOVE BUD
CH 2635 LINSEED OIL
CH 2636 GYMNEMA
CH 2637 NUTMEG
CH 2638 DIGITALIS
CH 2639 CHAULMOOGRA
CH 2640 GINSENG ROOTS
CH 2641 EUCALYPTUS
CH 2642 BLACK CATECHU
CH 2643 GARLIC
CH 2644 PEPPERMINT
CH 2645 TULSI
CH 2646 PYRETHRUM
CH 2647 AMLA
CH 2648 MOMORDICA
CH 2649 CUMMIN
CH 2650 VIDANG
CH 2651 HYOSCYAMUS
CH 2652 SAGE
CH 2653 DIOSCOREA
CH 2654 L.H.ERGOT
CH 2655 ALOE
CH 2656 ALMONDS
CH 2657 LEMON PEELS
CH 2658 THEVETIA
CH 2659 PICRORRHIZA
CH 2660 YEAST

Ask for complete List

CH 2655

PHARMACOLOGY INSTRUMENT

A Few basic instrument for the Pharmacology Lab

S No.	Instrument Name
1.	LEGANDROFF/ PERFUSION ASSEMBLY
2.	ELECTRIC KYMOGRAPH MODEL E-8
3.	MECHANICAL STIRRER
4.	VARNISHING TRAY WITH FOOT LEVER
5.	FOUR UNIT ORGAN BATH
6.	SINGLE UNIT ORGAN BATH
7.	ANALGENISMETER a.)Tail Flick Method b.)Eddy's Hot Plate Method
8.	FROG BOARD
9.	LONG EXTENSION FOR KYMOGRAPH
10.	METRONOME
11.	MERCURY MONOMETER
12.	POLE-CLIMBING APPARATUS
13.	ELECTRO-CONVULSIOMETER
14.	ACTIVITY CAGE/ACTOPHOTOMETER
15.	HISTAMINE CHAMBER
16.	PLETHYSMOGRAPH
17.	TETNUS SET
18.	TELETHERMOMETER-6 PROBE
19.	PHYSIOGRAPH-SINGLE CHANNEL
20.	PHYSIOGRAPH- THREE CHANNEL
21.	WATER DE-IONIZATION APPARATUS
22.	ROTAROD APPARATUS 2 COMP
23.	METABOLIC CAGES
24.	TABLET DISTEGRATION TEST APPARATUS
25.	VORTEX SHAKER

CONVULSIOMETER

KYMOGRAPH

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PHARMACOLOGY PIONEERS

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Dbios FAMOUS pHARMACOLOGY pIONEERS

1. Rudolf Buchheim Father of Pharmacology
2. Paul Greengard 2000
3. Robert F. Furchgott 1998
4. Louis J. Ignarro 1998
5. Ferid Murad 1998
6. Alfred G. Gilman 1994
7. Edwin G. Krebs 1992
8. Sir James W. Black 1998
9. Gertrude B. Elion 1988
10. Earl W. Sutherland JR. 1971
11. Julius Axelrod 1970
12. Linus Carl Pauling 1954
13. Herbert Spencer Gasser 1944
14. Corneille J.F. Heymans 1938
15. Otto Loewi 1936
16. Sir Henry Hallett Dale 1936
17. Frederick Grant Banting 1923
18. **Oswald Schmiedeberg** (1838-1921)
19. Dr. Naranjan Dhalla
20. Gerhard Johannes Paul Domagk (Nobilest)
21. Albert niemann
22. ARWID CARLSSON
23. Crawford Long
24. Friedrich Wilhelm Sertrner
25. George Hitchings (Nobilest)
26. James Parkinson
27. John-Gaddum
28. Howard Walter Florey
29. Sir John Vane
30. Karl Koller
31. Ludwig Laqueur
32. Sir James Whyte Black
33. Wzilliam T. G. Morton
34. William Withering

Col. Ramnath Chopra Father of Indian Pharmacology

Sir Howard Walter FLOREY

CRUDE DRUGS

Powdered Drugs, Natural Colours, Oils, Fibers etc. To be supplied in pearlpet jars.

With detail descriptions on separate framed key cards (Set of 100)