

**Charts (500)  
Models (14)**



1. Digital Flicker fusion
2. Pupil meter
3. Stopwatch

**Customised Charts**  
Size 20"x30" Laminated & Mounted Framed on Board

**Corticosteroids: Clinical Uses**

**CORTICOSTEROIDS: CLINICAL USES**

Corticosteroids have marked adverse effects on respiratory systems, so inhalation maintenance therapy in asthma, COPD or the treatment of allergic rhinitis is preferred. Inhaled corticosteroids release slowly, nasal irritation, and other symptoms. Corticosteroids inhaled by mouth reflect the severe asthma attacks. Spacers (chambers) can be attached to metered-dose inhalers to reduce the velocity and particle size of the drug, the amount of drug reaching the lungs is maximized, and the quantity of drug deposited in the mouth is minimized. Spacers are crucial for therapy with corticosteroids, which have many adverse effects. Regular doses of aerosol agents are smaller than doses used in pill form. The smaller, regular doses reduce side effects risk and may eliminate a need for around-the-clock maintenance or IV methylprednisolone is used only when patients are inoperative to the inhaled drug or need urgent treatment for severe asthma attacks.

## MANIKIN



**AS PER MCI**

## Models



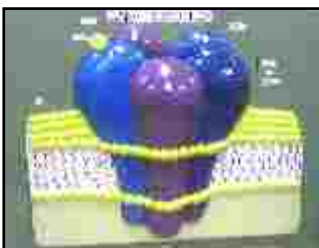
PCM 01  
ANTIMICROBIAL DRUG ACTION ON  
DIFFERENT SITES OF BACTERIAL CELL



PCM 02  
TYROSINE KINASE  
RECEPTOR



PCM 03  
NEUROHUMORAL TRANSMISSION  
OF ACETYLCHOLINE



PCM 04  
GABA<sub>A</sub> 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<sub>A</sub> 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-004 Manikin Female

CPR simulation, Venipuncture, injection, blood transfusion (Arm)

#### Features

Hair and face washing  
 Eye and ear washing and administering  
 Mouth cavity and artificial teeth care  
 Breast care  
 Postoperative care for tracheotomy  
 Oxygen inhaling  
 Nasal feeding  
 Gastrolavage  
 Ostomy care (no liquid)

Chest Cavity Puncture (no liquid)  
 Lumbar puncture (no liquid)  
 Venipuncture, injection, blood transfusion (Arm)  
 Vastuslateralis injection  
 Female bladder irrigation  
 Female urethral catheterization  
 Holistic nursing: flexible limbs joints, sponge bath, clothes changing, cold & hot therapy.

Intracardial, Intradermal,  
 Deltoid subcutaneous and  
 Buttocks intramuscular injection  
 Enema



**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. Antihyperlipidemic 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

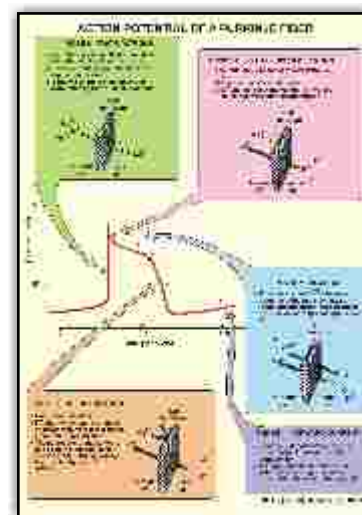
**DPhc 06 Autocoids (in 2 Charts)**

- 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**



# 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 effector organs
- (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 receptors, major effects by  $\alpha$  and  $\beta$  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  $\alpha$  adrenoreceptor by phenoxy benzamine, actions of propranolol and other  $\beta$ -blockers
- (B) Comparison of agonists antagonists and partial agonists of  $\beta$ -adrenoreceptors, some clinical applications of  $\beta$ -blockers, summary of  $\beta$ -adrenergic antagonists

## DPhc 58 Treatment of Neurodegenerative Diseases (2 charts)

- (A) Summary of antiparkinson & anti-alzheimer 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 therapeutic 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 anesthesia, modulation 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

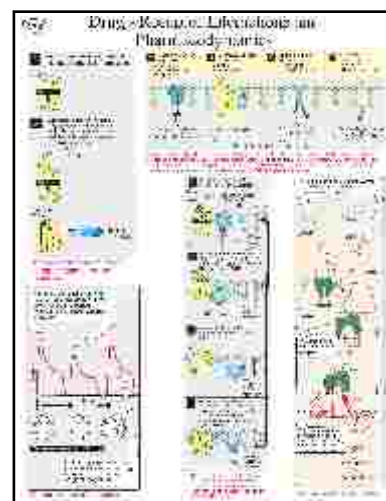
Summary of opioid analgesics, mechanism of action of  $\mu$ -opioid receptor agonists competition of naloxone with opioid agonists

## 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  $\beta$ -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 for the effects of class IA, IB, IC agents
- (C) Schematic diagram of the effects of class III & class 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 anticoagulant 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 lipase 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-corticotrophic 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 androgens

**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<sub>1</sub> = forced expiratory volume in one second.

**DPhc 78 Gastrointestinal and Antiemetic Drugs. (2 charts)**

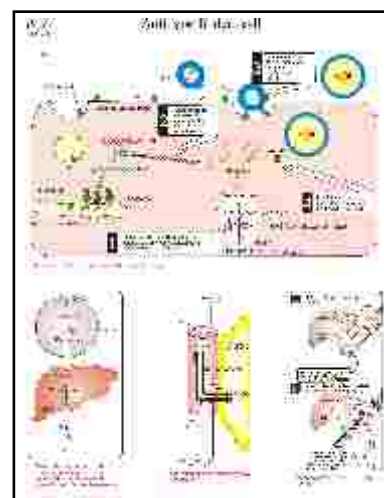
- (A) Summary of drugs used to treat peptic ulcer disease, Helicobacter pylori in association with gastric mucosa effects of acetylcholine, histamine, prostaglandin E<sub>2</sub>, and gastrin on gastrin acid secretion, administration and fate of cimetidine, drug interactions with cimetidine.
- (B) Comparison 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 concentration 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



# PHARMACOLOGY CHARTS

# Pharmacology (Dbios)

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  $\beta$ -lactam antibiotics, bacterial cell wall of gram-positive bacteria.
- (B) Typical Therapeutic Applications of penicillin 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 tetracyclines, 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 linezolid, Antimicrobial spectrum of linezolid.

## 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 applications of ciprofloxacin Administration & fate of fluoroquinolones.
- (B) 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.
- (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 Immunosuppressive 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-inflammatory 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) Metabolism 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



**Size 20"x26"**

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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**

- Dphc 158 Development of the Nervous System
- Dphc 159 Anatomy of the Nervous System
- Dphc 160 Functional Correlations and Visualization of Brain Structures
- Dphc 161 Resting Membrane and Action Potentials
- 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

**Antidepressants**

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

**Drugs Affecting Bipolar Disorder 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 Mechanisms of Action
- Dphc 187 General Anesthetics: Properties
- Dphc 188 Opioids: Endogenous Opioid Pathway
- Dphc 189 Opioids: Receptor-Transduction Mechanisms
- 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 Catecholamines
- Dphc 199 Regulation of Norepinephrine Release
- Dphc 200 Inactivation of Norepinephrine





# PHARMACOLOGY CHARTS

Pharmacology (Dbios)

Size 20"x26"

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## 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 Treatment
- 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 Glycosides

## 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
- Dphc 220 Hypertension Treatment: Diuretics
- Dphc 221 Hypertension Treatment: Angiotensin-Converting Enzyme Inhibitors
- Dphc 222 Hypertension Treatment: b and a Blockers
- 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

## Peripheral 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 Disorders

- 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 Hyperthyroidism
- Dphc 241 Hyperthyroidism: Treatment
- Dphc 242 Thioamides
- Dphc 243 Thioamides: Adverse Effects
- Dphc 244 Radioactive Iodine
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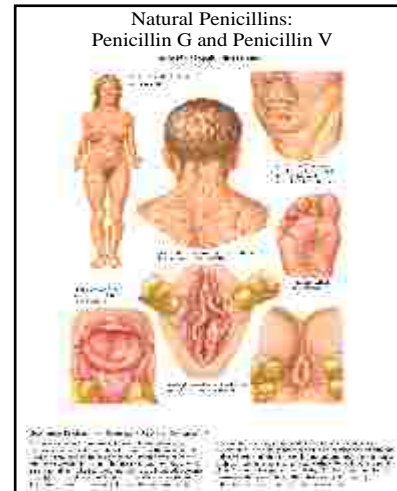
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