

Pharmacology

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Pharmacology

Overview

Pharmacology is the branch of medicine concerned with studying the composition, uses, effects, and modes of action of drugs, especially with relation to their therapeutic value. It is heavily reliant on the previous comprehension of basic sciences, such as chemistry and physiology.

It is important to relate pharmacologic concepts to the normal physiologic processes of the human body. The study of pharmacology and administration of medications is not an isolated field of medicine. It is one of the focal points of modern science and research activities.

A solid grasp of pharmacology allows one to manage or even cure thousands of conditions. From choosing the correct antibiotic for a specific infection, or correcting a hormonal imbalance, to avoiding life-threatening drug interactions, the study of pharmacology is the basis of therapeutic medicine.

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Endocrine Pharmacology

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- Hormonal Regulators: Calcitonin, Estrogen and Glucocorticoids – Bone and Calcium Medications
- Non-hormonal Regulators: Bisphosphonates, Fluoride and Calcimimetics – Bone and Calcium Medications

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Respiratory Pharmacology

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Cardiovascular Pharmacology

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ANS - Pharmacology

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Pharmacology (MBBS India)

Pharmacology

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Dosage Calculation

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 Pharmacokinetics (PK)
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 Pharmacokinetics (PK)
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Pharmacology across the Lifespan

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- Neonates and Infants Pharmacology across the Lifespan
- Children Pharmacology across the Lifespan
- Geriatrics Pharmacology across the Lifespan
- Unique Challenges to the Older Adult Pharmacology across the Lifespan
- Beers Criteria® Pharmacology across the Lifespan

Pharmacology and Implications

- Introduction to Pharmacology for Nursing Students
- The Nurse's Role in Pharmacology
- The 5 Rights of Medication Administration
- The Nursing Process: Assessment
- The Nursing Process: Diagnosis and Planning
- The Nursing Process: Implementation and Evaluation
- PRN Medications
- 8 Important Questions Every Nursing Student Should Ask
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- Pharmacodynamic Terms: Receptor, Agonist and Antagonist
- Selective Serotonin Reuptake Inhibitors (SSRIs)
- Adverse Drug Reactions (ADR)
- CNS Depressants and Vancomycin: Dangerous Medications
- Allergic and Hypersensitivity Reactions to Antibiotics
- Stevens-Johnson Syndrome: Diagnosis and Medications
- Nephrotoxicity: Assessment of Renal Toxicity
- Hepatotoxicity: Assessment and Evaluation
- Blood Pressure: The Highs, the Lows, and what the Measurements
 Mean
- Sphygmomanometer and 6 Steps to Accurate Blood Pressure
- Systolic Pressure and Diastolic Pressure
- Risks of High Blood Pressure
- Symptoms and Causes of Low Blood Pressure
- Blood Pressure: In a Nutshell

Musculoskeletal, Skin, & Connective Tissue—Pharmacology

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- Arteries and Veins Anatomy of the Heart
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- Phases and Waveforms Physiology of the Heart
- Cardiac Output Physiology of the Heart
- Blood Oxygen Physiology of the Heart
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- Cardiac Physical Exam The Patient's History (Diagnostics)
- Electrocardiogram The Patient's History (Diagnostics)
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Addison's Disease - Top USMLE Diseases

- Adrenal Insufficiency: Definition & Etiology
- Waterhouse-Friderichsen Syndrome & Addison's Disease Adrenal Insufficiency
- Adrenal Insufficiency (Addison's Disease) in Children
- Diagnosis Adrenal Insufficiency
- Glucocorticoids in Pharmacology Adrenal Insufficiency
- Congenital Adrenal Hyperplasia (CAH) Adrenal Insufficiency

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Geriatric Care (APRN)

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- Medications for Older Adults
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- Breaking Bad News
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Ob/Gyn Clerkship

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Recordings of our Live Study and Nursing Mentoring Sessions

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- Event 11: How to Survive Nursing School with Nurse Liz (2022)
- Event 12: How to Tackle Your Final Exams with Nurse Liz
- Event 13: Self Care for Nurses with Dr. Brenda Marshall
- Event 14: Learn More, Stress Less Using Lecturio to Set Yourself Up for Success
- Event 15: Favorite Studying, Test Taking, And Clinical Tips with Nurse
 Liz

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- Event 16: Three Must Know Tips for Nursing School Success
- Event 17: How to Avoid Falling Behind in Nursing School How to Plan Your Semester
- Event 18: Respiratory Emergencies Nursing Pathophysiology
 Review Live with Professor Lawes
- Event 19: Four Steps to NCLEX Success
- Event 20: Anatomy of Chest Pain with Darren Salmi

Adrenal Gland Disorders

- Introduction & Hypothalamus Adrenal Cortex
- Overview of the Adrenal Gland Adrenal Cortex
- Cortisol and Aldosterone Synthesis Adrenal Cortex
- Renin-Angiotensin-Aldosterone-System (RAAS) Adrenal Cortex
- Adrenal Incidentalomas Adrenal Cortex
- Hyperaldosteronism
- Hypoaldosteronism
- Introduction to Cortisol and Hypercortisolism Adrenal Gland
- Introduction to Cushing's Syndrome Adrenal Gland
- Screening Tests for Hypercortisolism Adrenal Gland
- Management of Cushing's Syndrome Adrenal Gland
- Adrenal Insufficiency: Definition & Etiology
- Waterhouse-Friderichsen Syndrome & Addison's Disease Adrenal Insufficiency
- Diagnosis Adrenal Insufficiency
- Glucocorticoids in Pharmacology Adrenal Insufficiency
- Congenital Adrenal Hyperplasia (CAH) Adrenal Insufficiency
- Sympathoadrenal System and Catecholamine Adrenal Medulla
- Pheochromocytoma Adrenal Medulla
- Hereditary Disorders: Von-Hippel-Lindau Syndrome, Sturge-Weber-Syndrome, Neuroblastoma, MEN2A & MEN2B – Andrenal Medulla

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Hemostasis: Basic Principles with Carlo Raj

- Normal Hemostasis
- Coagulation Cascade
- Normal Hemostasis Clotting Factors
- Stages of Hemostasis
- Increased Bleeding Time
- Normal Hemostasis Pharmacologic Anticoagulants
- Hematology: Pharmacology
- Bivalirudin & Warfarin (Coumadin)
- Heparin vs. Warfarin
- Mechanism of Antiplatelet Interaction
- Aspirin, Clopidogrel, and Abciximab
- Bleeding Disorders: Vessel Wall Abnormalities
- Immune Thrombocytopenic Purpura
- Thrombotic Microangiopathies
- Hemolytic Uremic Syndrome
- Disseminated Intravascular Coagulation (DIC)
- Drug-induced Thrombocytopenia
- Functional Platelet Abnormalities
- Clotting Factor Deficiencies
- Etiology of Clotting Factor Deficiencies
- Hemophilia
- von Willebrand's Disease (vWD)
- Thrombotic Disorders
- Risk Factors of Thrombotic Disorders
- Acquired Thrombotic Syndromes
- Hereditary Thrombosis

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