

STUDY GUIDE

PHARMACOLOGY

Pharmacology basics

Pharmacology is the scientific study of the origin, nature, chemistry, effects, and uses of drugs. This knowledge is essential to providing safe and accurate medication administration to your patients.

Basic concepts of Pharmacology:

- Pharmacokinetics – The **absorption, distribution, metabolism, and excretion** of drugs by the body.
- Pharmacodynamics – The **biochemical and physical effects** of drugs and the mechanisms of drugs by the body.
- Pharmacotherapeutics – **The use of drugs to prevent and treat diseases**

Naming and classifying drugs: Drugs have a specific kind of nomenclature – that is a drug can go by three different names.

- Chemical name- A **scientific name** that precisely describes the **drug's atomic and molecular structure**.
- Generic/Nonproprietary name - is **an abbreviation** of the chemical name.
- Trade name/proprietary name (Also known as brand name) – is **selected by the drug company** selling the product.
 - **Trade names are protected by copyright.**
 - ® symbol after a trade name indicates that **the name is registered by and restricted to the drug manufacturer.**

Class Act: Pharmacologic class (family) - Drugs that share the similar characteristics that are grouped together.

Beta-adrenergic blockers are an example of **pharmacologic class** – refers to how an agent works at the molecular, tissues, and body system levels.

Note: Pharmacologic class is a group of active moieties that share scientifically documented properties and is defined on the basis of any combination of three attributes of the active moiety

- **Mechanism of Action**
- **Physiologic effect**
- **Chemical structure**

A second type of drug grouping is **Therapeutic class** – categorizes drugs by the therapeutic use. *Anti-hypertensive* are an example of a therapeutic class.

Where drugs come from

Traditionally, drugs were derived from natural sources such as: Plants, Animals, Minerals. Today however laboratory knowledge, along with chemical science to develop synthetic drug sources. One advantage of chemically developed drugs is that they're free from the impurities in natural substances. Also, researchers and drug developers can manipulate the molecular structure of substances such as antibiotics so that a slight change in the chemical structure makes the drug effective against different organisms. The first, second, third, and fourth generation cephalosporins are an example.

Answers For Pharmacology Study Guide

Daniel F McAuley



Answers For Pharmacology Study Guide:

The Primary FRCA Structured Oral Examination Study Guide 1 Lara Wijayasiri, Kate McCombe, 2025-03-25 The Primary FRCA Structured Oral Examination Study Guide 1 Physiology and Physics Third Edition provides answers to the questions regularly posed by the FRCA examiners The key information to succeed in the Primary FRCA examination has been collated and is delivered in a relevant and user friendly layout making exam preparation easier Fully updated and revised with new chapters covering Cleaning and decontamination Heat loss in theatre Statistics Key features that have aided readers of earlier editions have been expanded with new figures added to aid visual recall This new edition together with its companion The Primary FRCA Structured Oral Examination Study Guide 2 Pharmacology and Clinical Topics Third Edition continue to be the definitive revision aids to the Primary FRCA structured oral examination The model answers to the RCoA sample questions ensure exam revision is focused and that complex information can be retained *The Primary FRCA Structured Oral Exam Guide 2* Kate McCombe, Lara Wijayasiri, 2017-05-12 The Primary FRCA Structured Oral Examination Study Guide 2 is the definitive revision aid to the Primary FRCA structured oral examination This second edition is revised and updated in line with the new Royal College of Anaesthetists Guide to the Primary FRCA with over 20 new topics to reflect changes to the RCoA s model questions and major revisions to graphs diagrams and many of the pre existing sections Packed with new guidelines and current hot topics this second volume covers pharmacology special patient groups and critical incidents in depth Over 37 pharmacology topics are covered including mechanisms of drug action dose response curves drug interactions half life variations in drug metabolism opioids neuromuscular blocking drugs and more Twelve special patient groups topics are covered including paediatrics elderly pregnancy diabetes hypertension and more Over 20 critical incidents topics are covered including aspiration cyanosis bradycardia failed intubation ST segment changes hypoxia and more The second edition of this hugely popular book is improved in clarity and content but stays true to the pragmatic approach adopted by the authors in the first edition *Study Guide to Accompany Pharmacology for Nursing Care* Marshal Shlafer, Richard A. Lehne, 2004 This study guide features high claiber learning activities that apply the renowned Dr Marshal Shlafer s rich experience in teaching pharmacology to a wide range of student learning styles **The Primary FRCA Structured Oral Exam Guide 1** Lara Wijayasiri, Kate McCombe, 2017-05-12 The Primary FRCA Structured Oral Examination Study Guide 1 is the definitive revision aid to the Primary FRCA structured oral examination This second edition is revised and updated in line with the new Royal College of Anaesthetists Guide to the Primary FRCA with over 20 new topics to reflect changes to the RCoA s model questions and major revisions to graphs diagrams and many of the pre existing sections Packed with new guidelines and current hot topics this first volume covers physiology and physics The nearly 50 physiology topics covered include lung function hypoxia acid base balance pain pathways oxygen transport cerebral blood flow and more Nearly 30 physics topics are covered including gas laws oxygen measurement cardiac output monitoring safety features of

the anaesthetic machine resuscitation bags and valves depth of anaesthesia monitoring and more The second edition of this hugely popular book is improved in clarity and content but stays true to the pragmatic approach adopted by the authors in the first edition **Patient Studies in Pharmacology** Mary W. Falconer,1976 Pharmacology - An Illustrated Review Mark A. Simmons,2011-09-05 The perfect study tool for preparing for your courses or examinations Pharmacology An Illustrated Review s focused presentation and full color illustrations makes learning the complex information essential to success easier Sidebars make connections to underlying concepts in other basic sciences or apply the concepts presented in the clinical setting Features Succinct bullet point text streamlines studying Hundreds of full color illustrations reinforce clear explanatory text Numerous tables sum up crucial information for quick review Frequent sidebars build on and integrate learning across the basic sciences and apply this learning to the clinical setting 200 review questions with a rationale for why answers are right or wrong test mastery and help you prepare for exams An additional 200 review questions all available online allow you to test yourself and get immediate feedback quickly identifying areas for further study

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